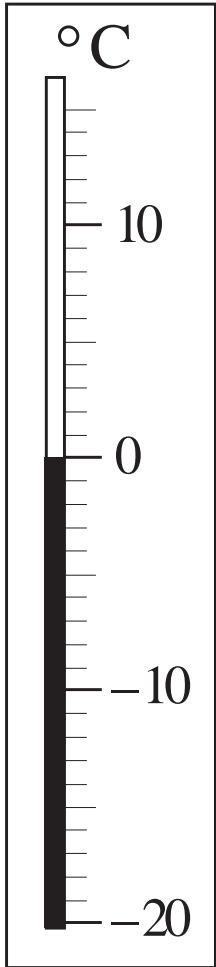
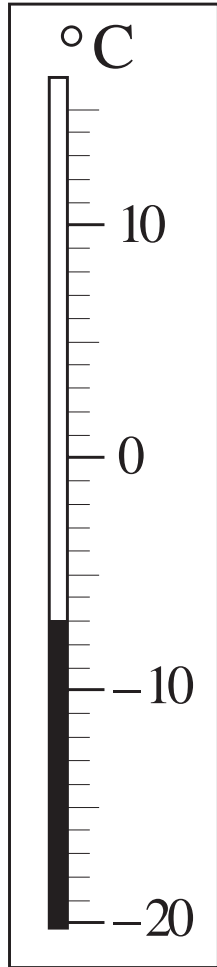


1 sheet per pupil. Ps colour and label appropriately.

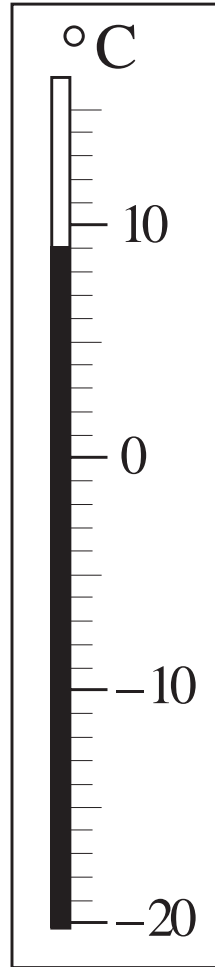
a)

 °C

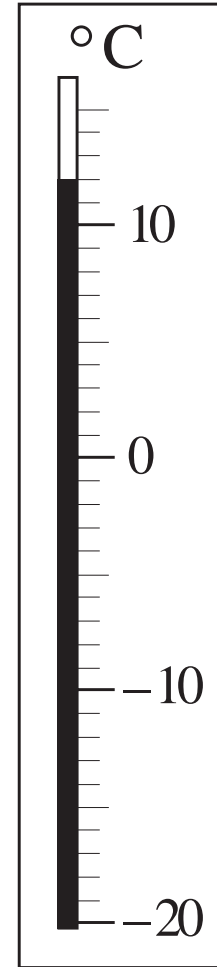
b)

 °C

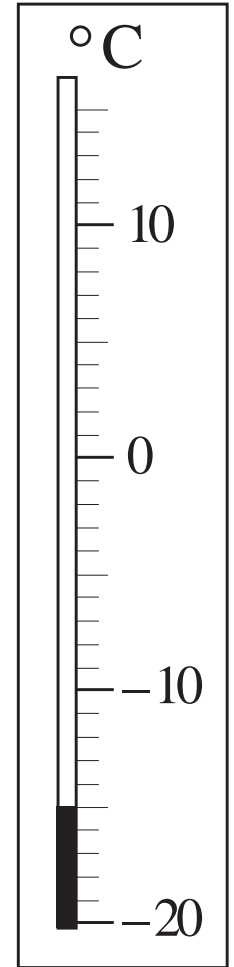
c)

 °C

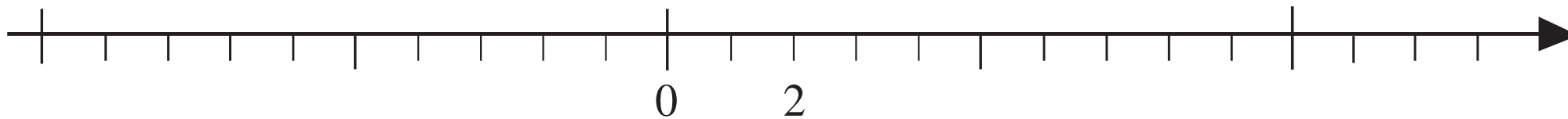
d)

 °C

e)

 °C

a) $-7, +1, 0, 6, -5, -3, +10, 11$



b)

-7	\bigcirc	$+1$	0	\bigcirc	-5	-5	\bigcirc	-7	-7	\bigcirc	-5
-5	\bigcirc	0	11	\bigcirc	0	6	\bigcirc	-3	6	\bigcirc	$+10$
-7	\bigcirc	-3	11	\bigcirc	6	0	\bigcirc	-5	-3	\bigcirc	$+10$



LP 52/1

a)

x	5	-3	2	14		0	-140	479	40.5			-0.72
y	-5	3			8	0		-479		-12.3	$\frac{5}{8}$	

$y =$ $x =$

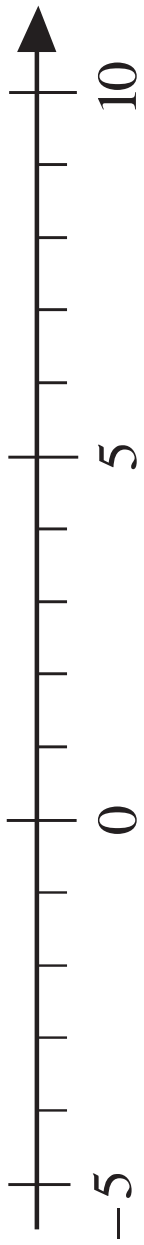
b)

u	6	-11	5	-93	41	164	-2.3	0				-0.15
v	6	11	5						0	10	10	

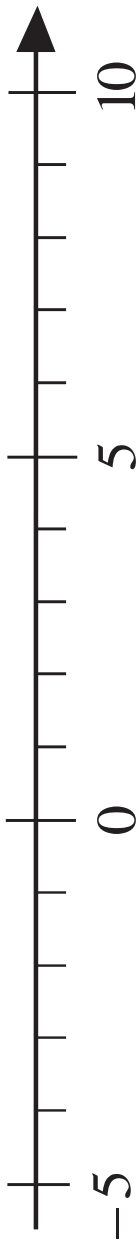
$v =$

LP 52/2

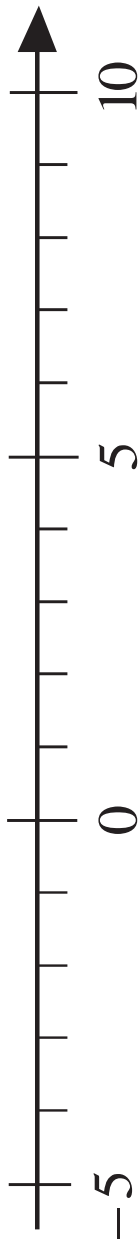
a)



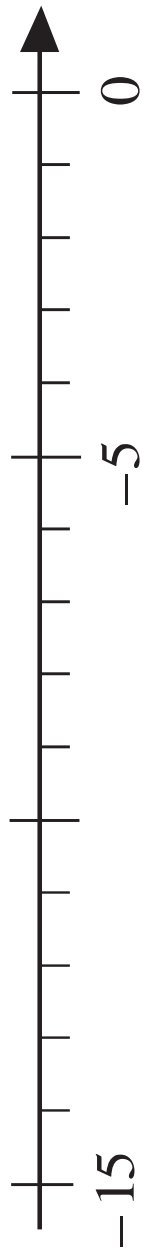
b)



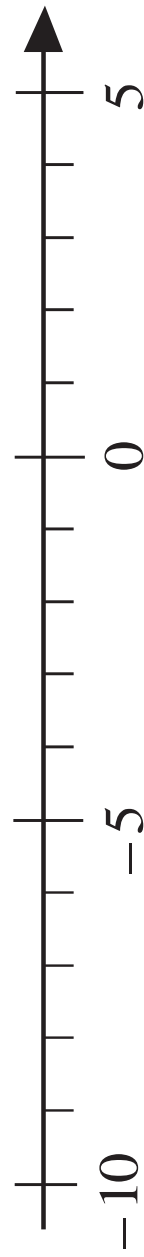
c)



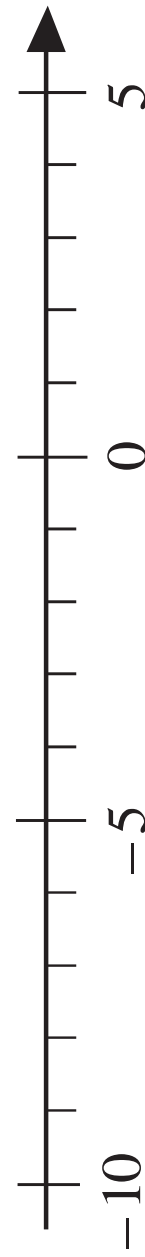
d)

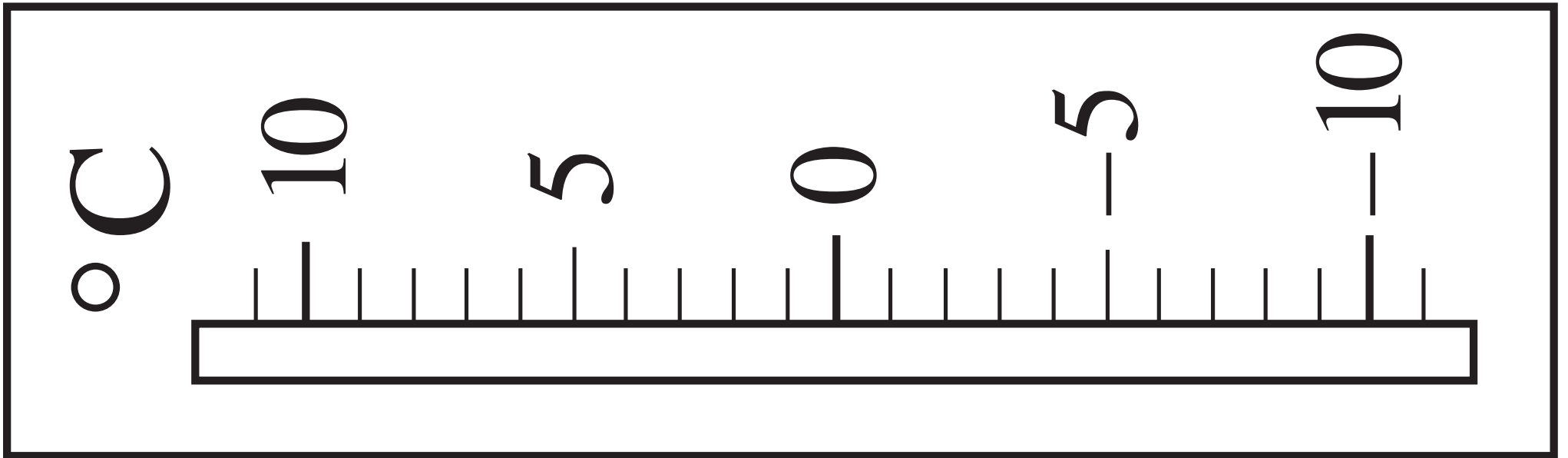


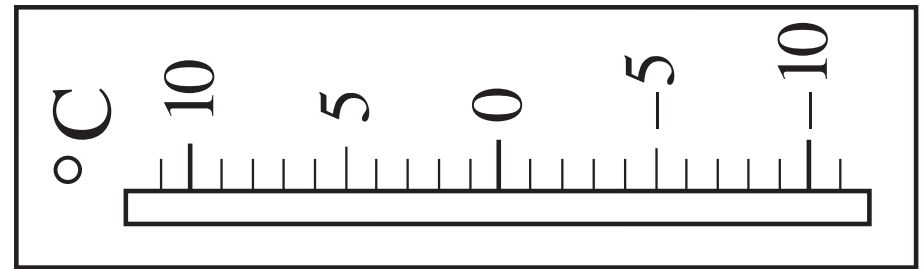
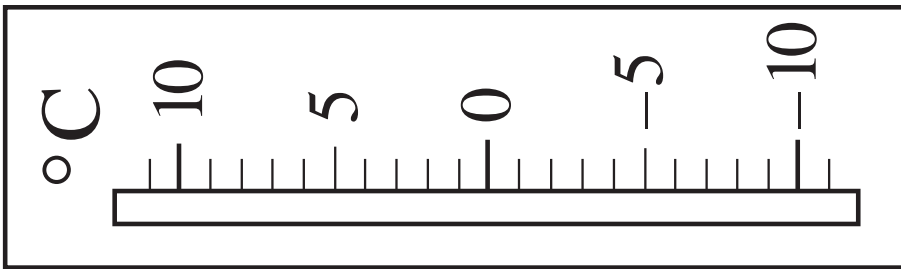
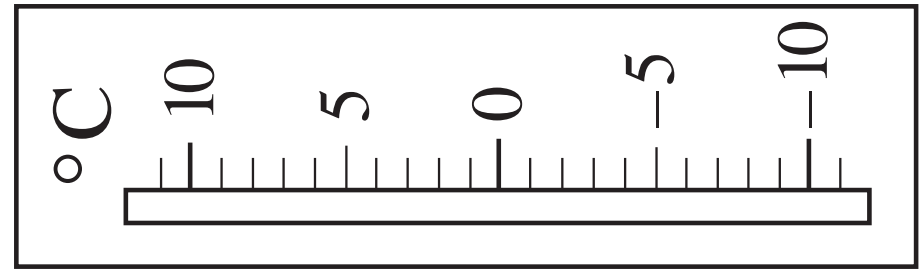
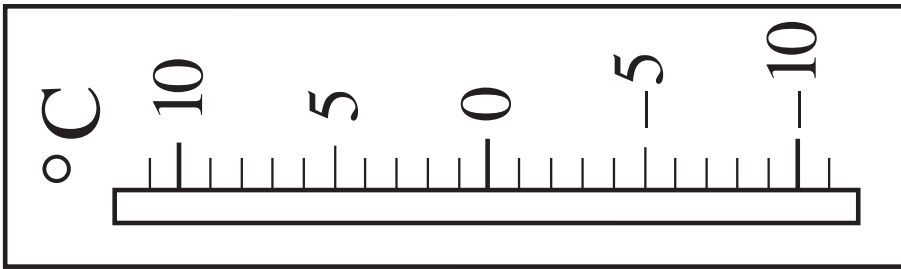
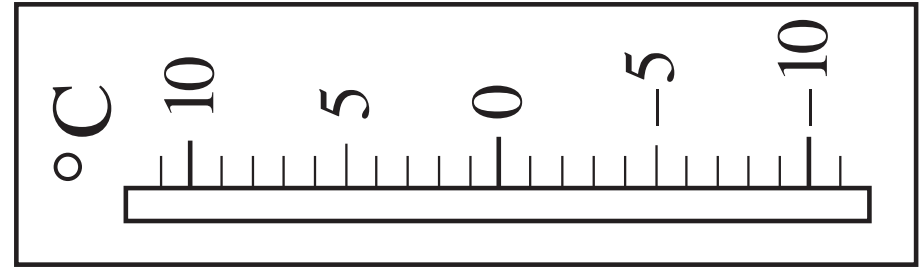
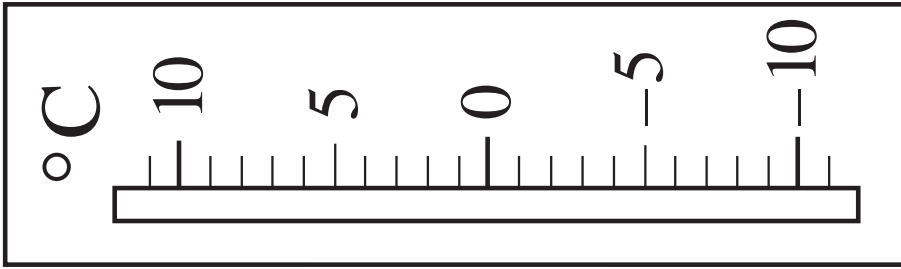
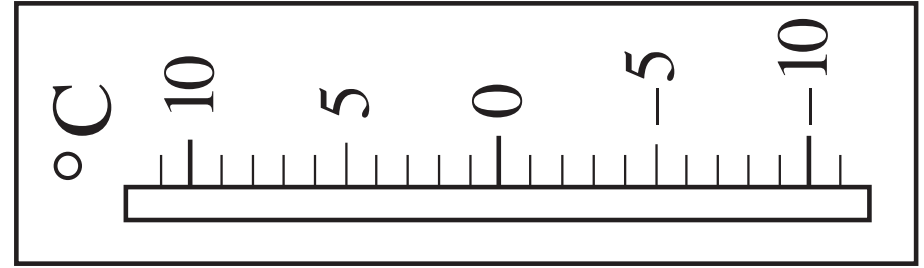
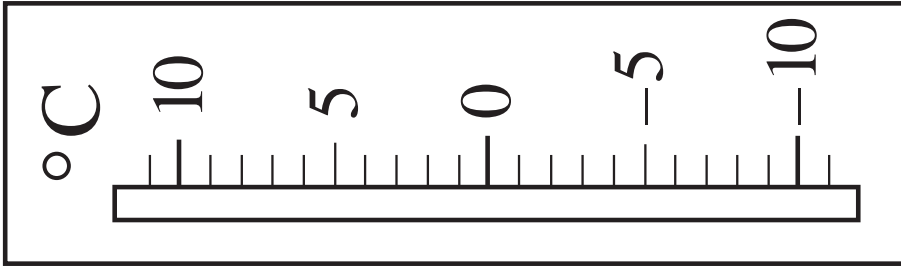
e)



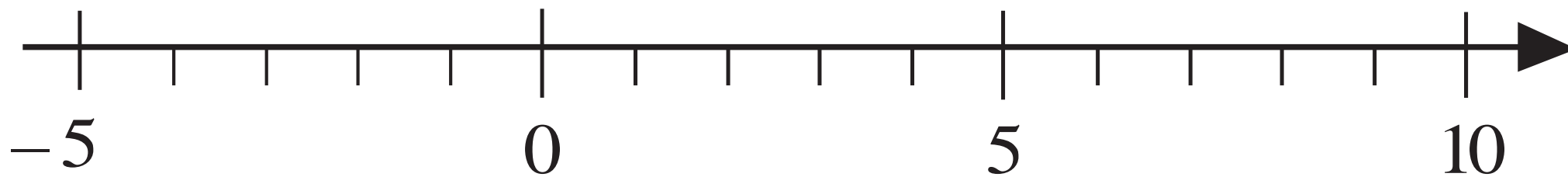
f)



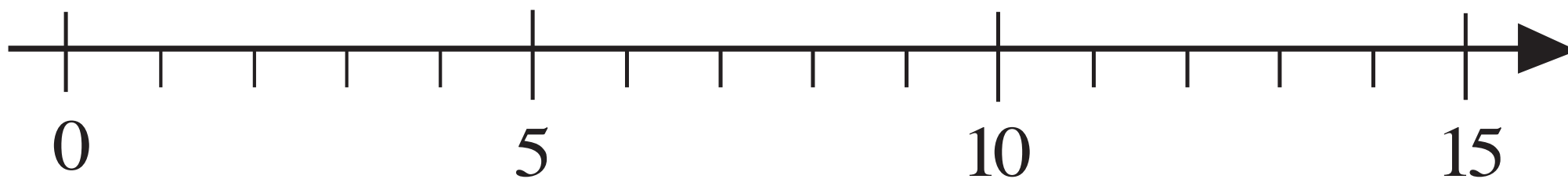


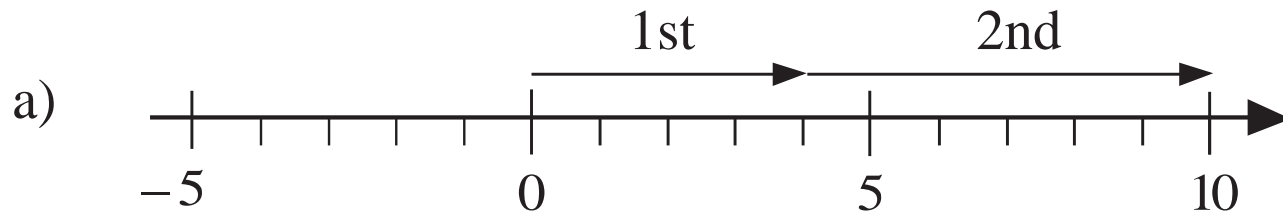


a)

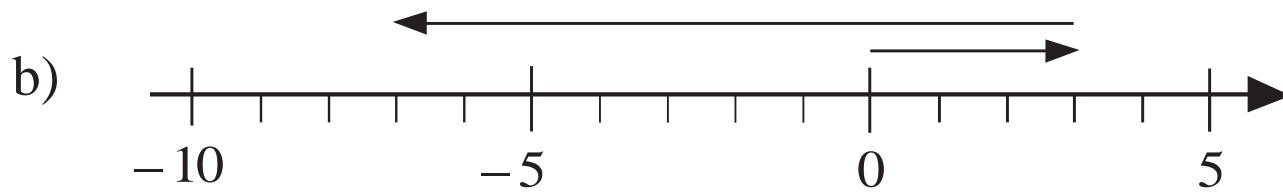


b)

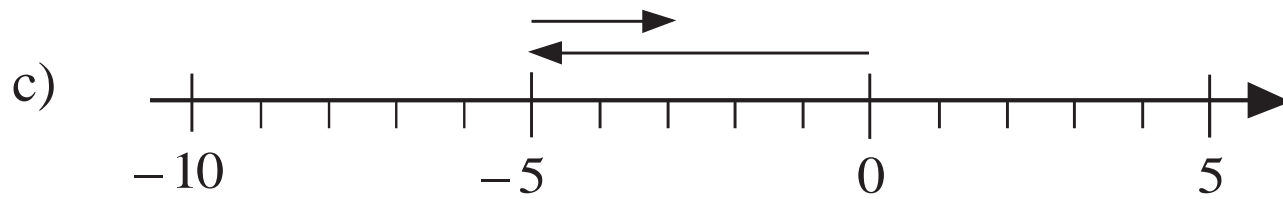




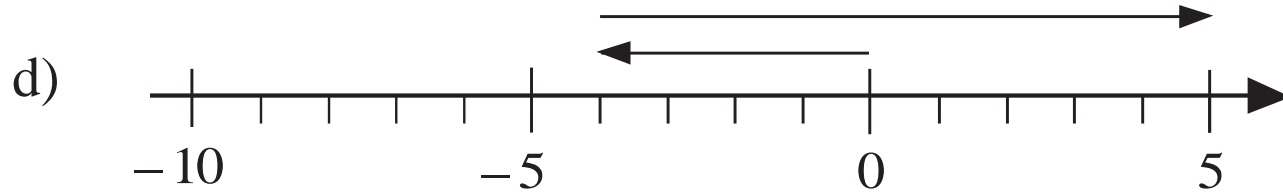
.....



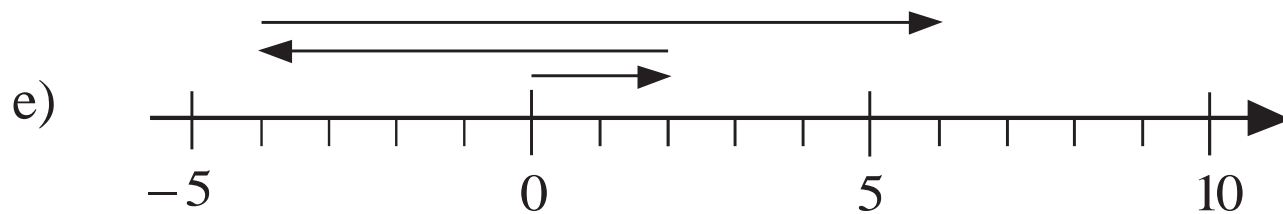
.....



.....

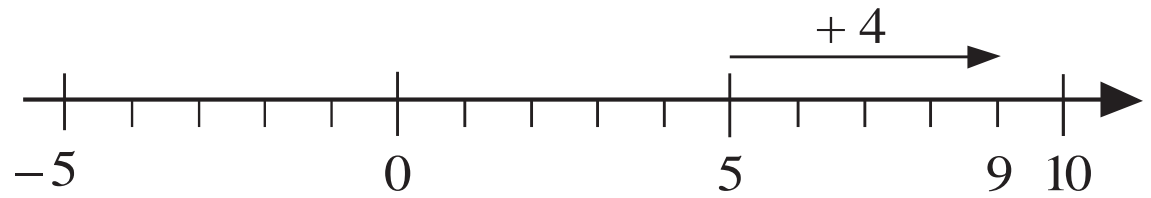


.....

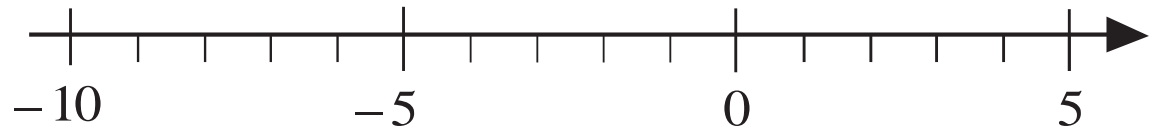


.....

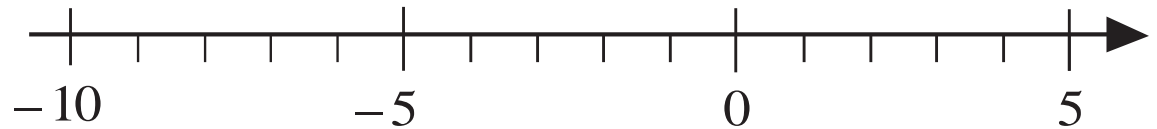
a) $5 + \boxed{} = 9$



b) $-7 + \boxed{} = -9$



c) $\boxed{} + (-3) = -10$



d) $-3 + \boxed{} + (-5) = 2$



e) $5 + (-3) + \boxed{} = 0$



f) $3 + (-5) + \boxed{} = 6$



a)

-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1	1	1	1	1	1	1	-1	-1	-1	-1		

.....

b)

1	1	1	1	1	1	1	1	1	1	1	1	1
-1	-1	-1	-1	-1	1	1	1					

.....

c)

1	1	1	1	1	1	1					
-1	-1	-1	-1	-1	-1	-1					

.....

a)

1	1	1	1	1	1	1	1					
				-1	-1	-1						

.....

b)

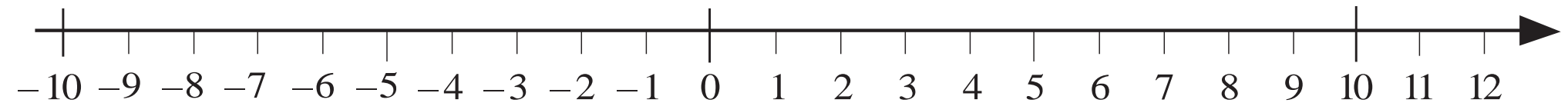
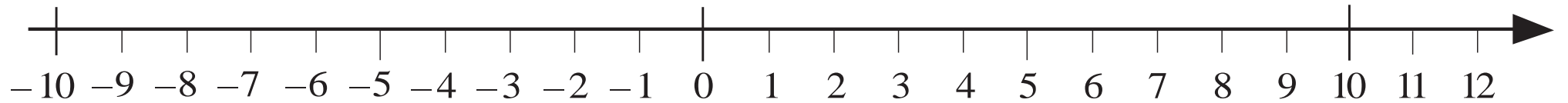
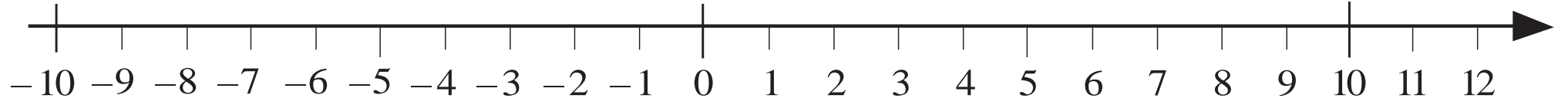
				1	1	1	1					
-1	-1	-1	-1	-1	-1	-1	-1	-1				

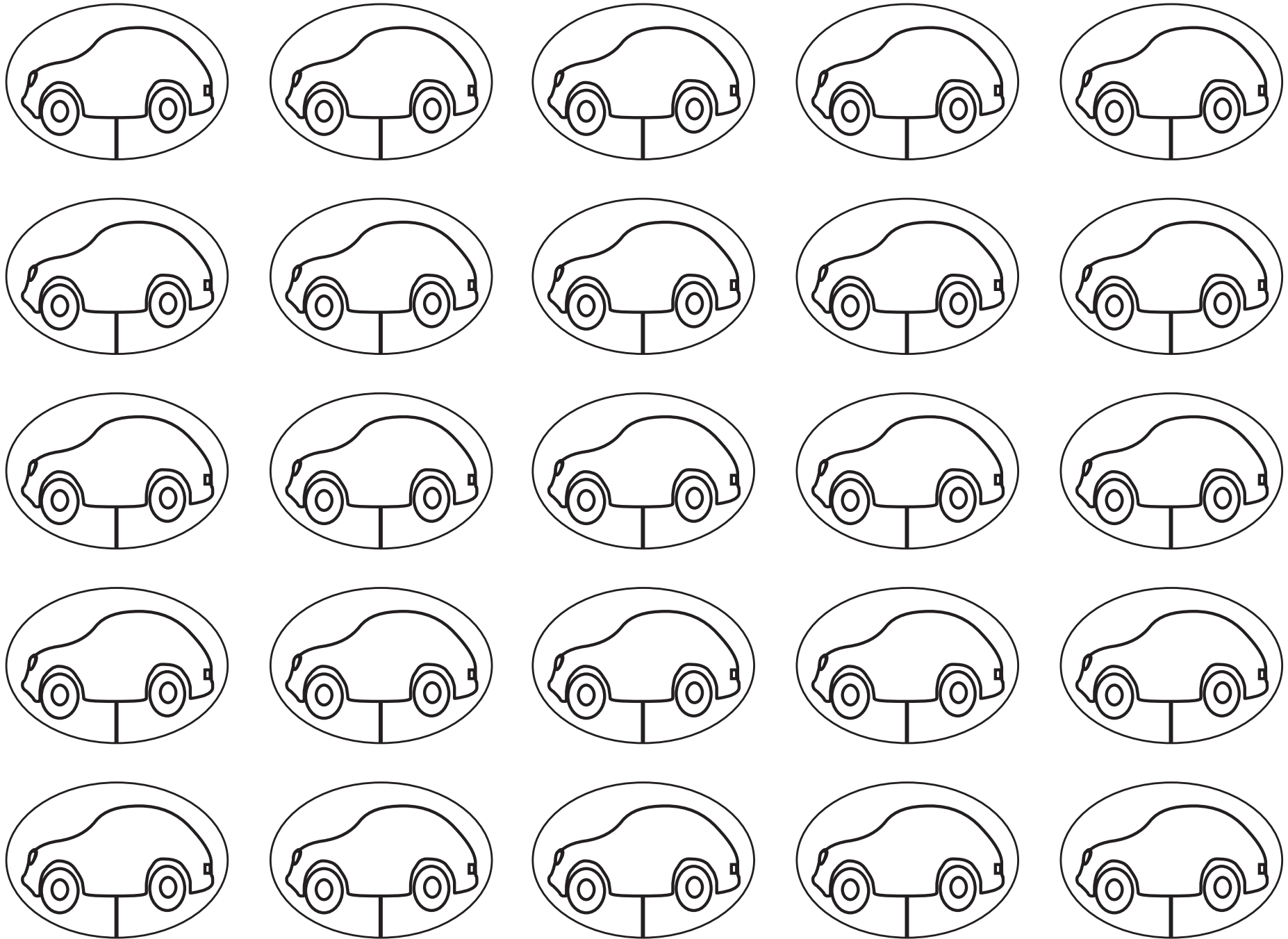
.....

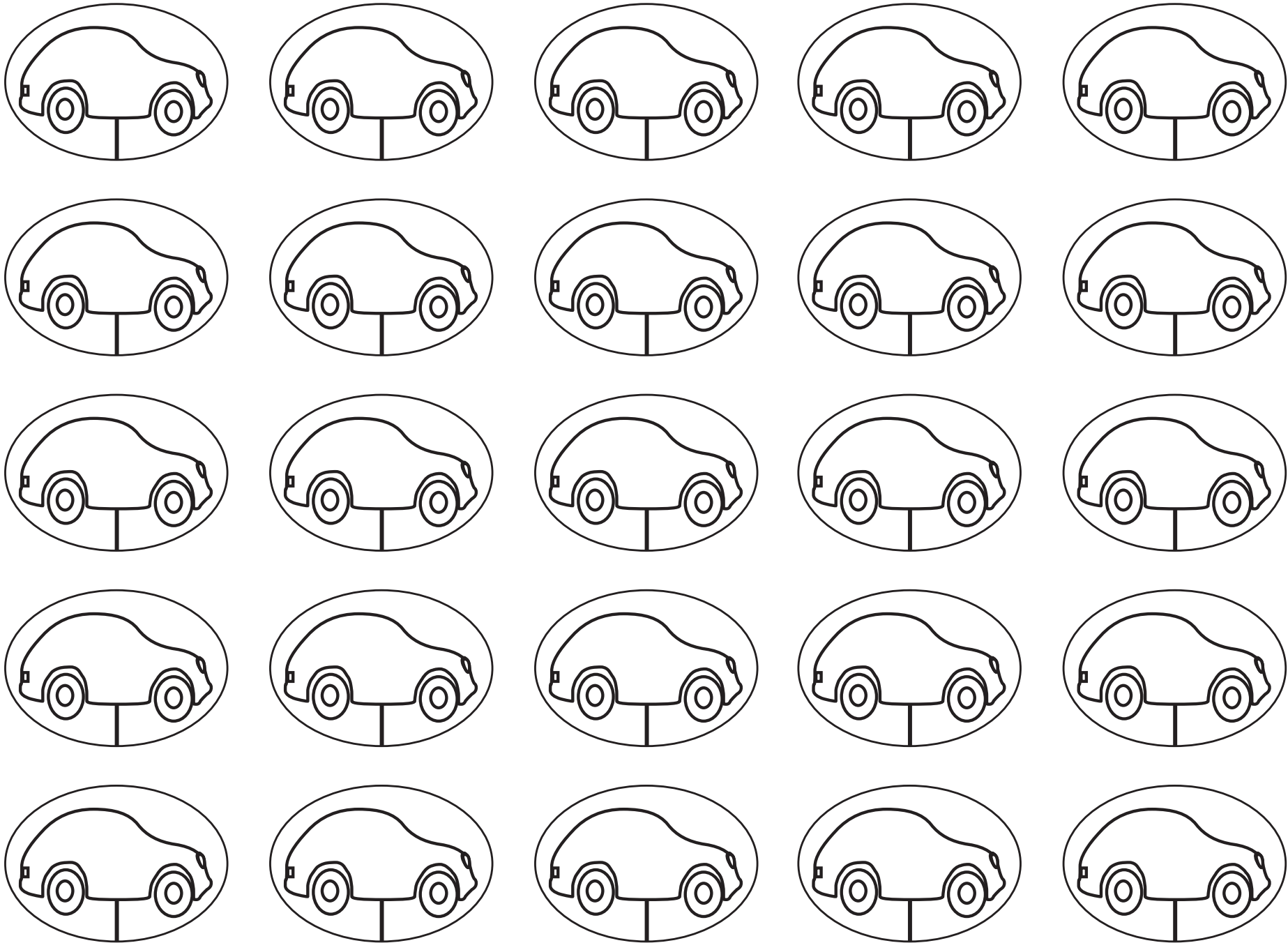
c)

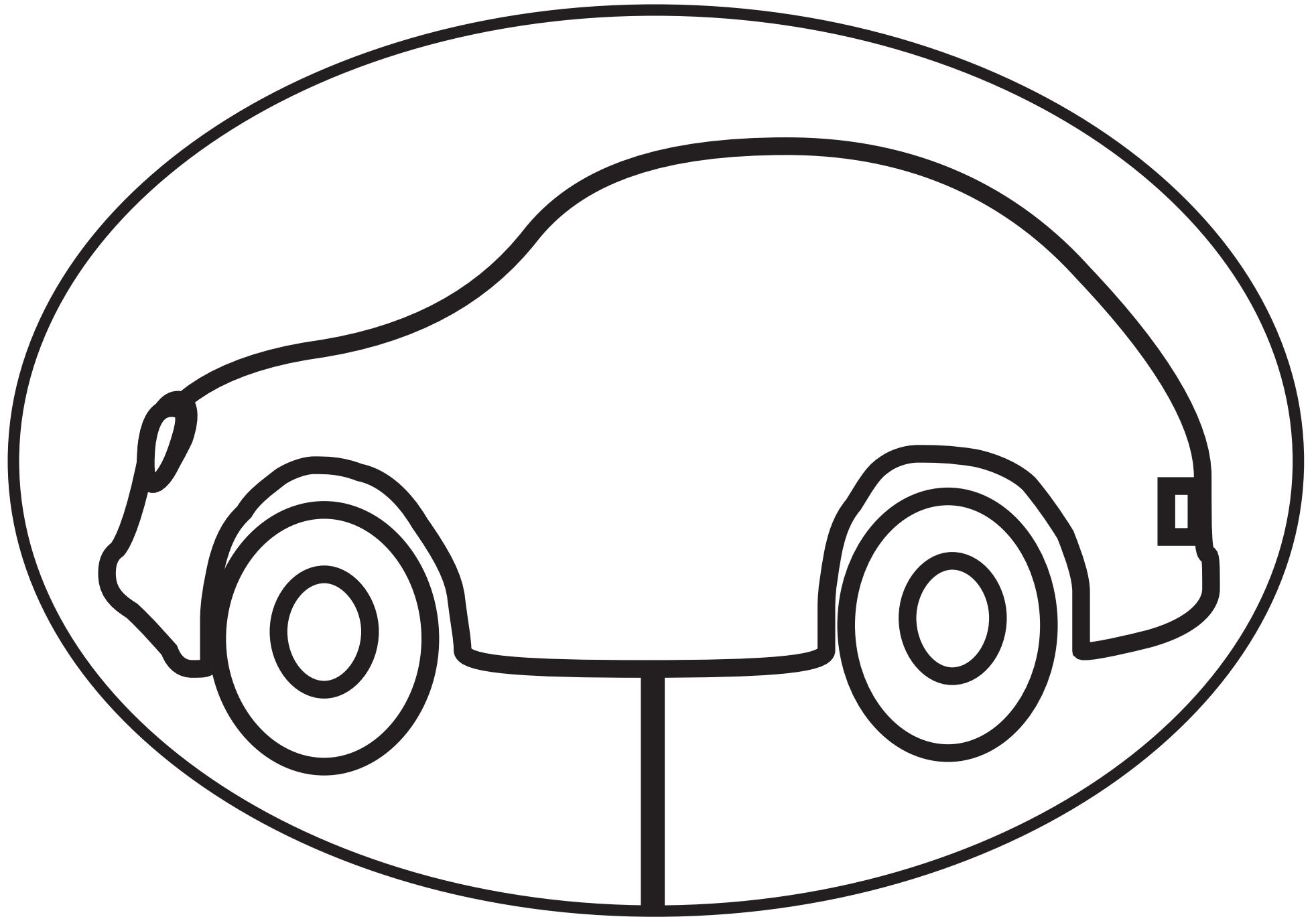
		1	1	1	1						
		-1	-1	-1	-1						

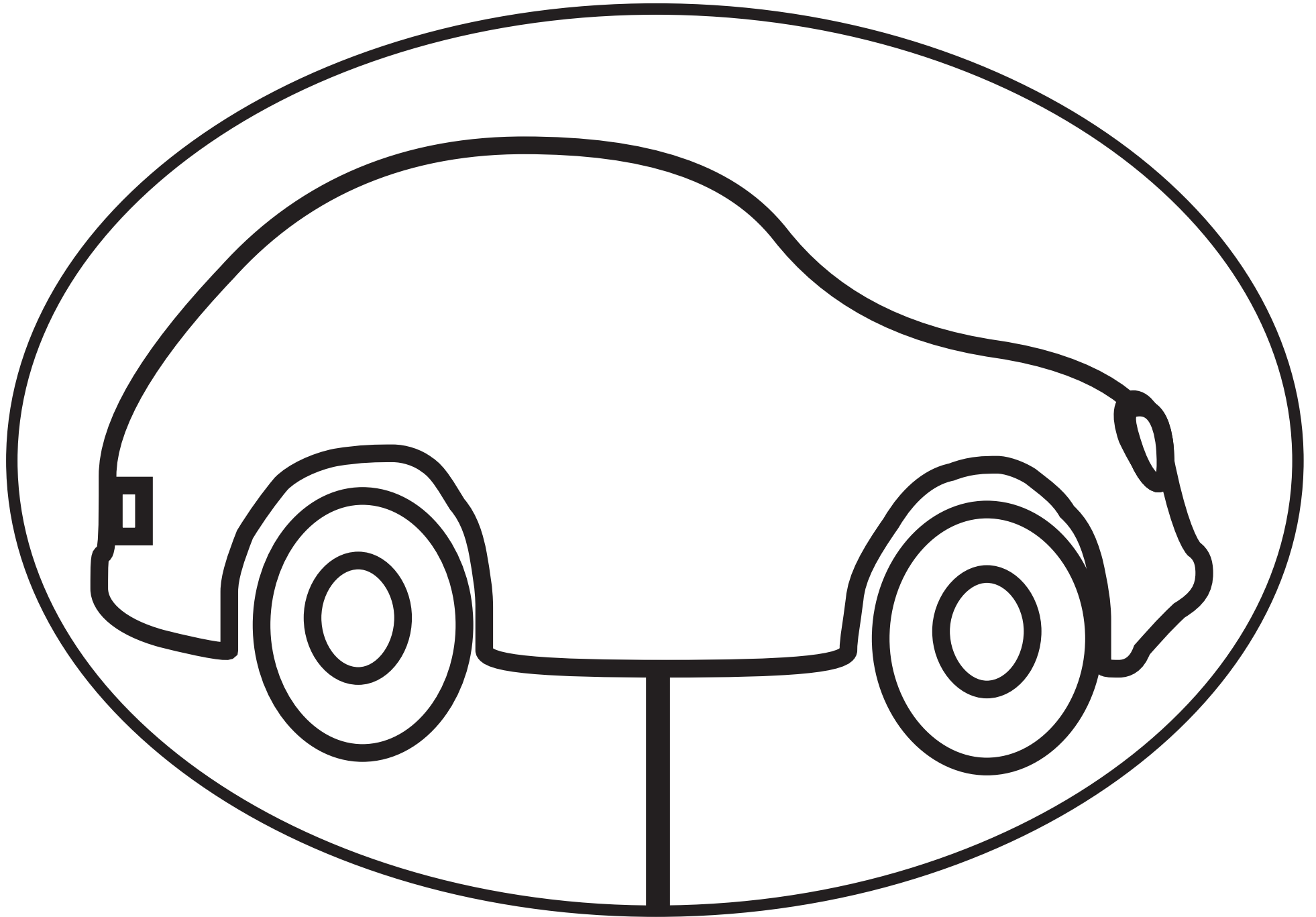
.....

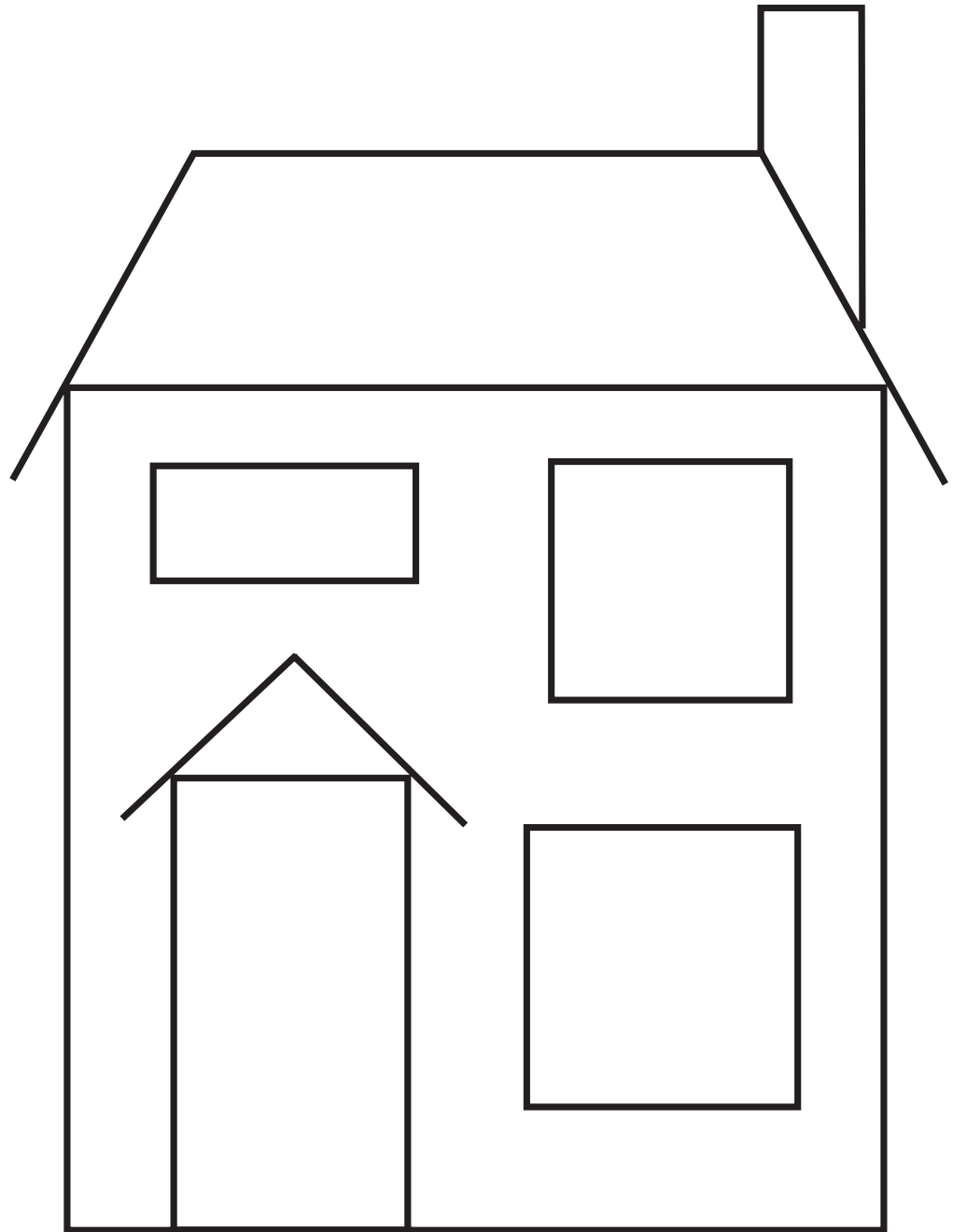
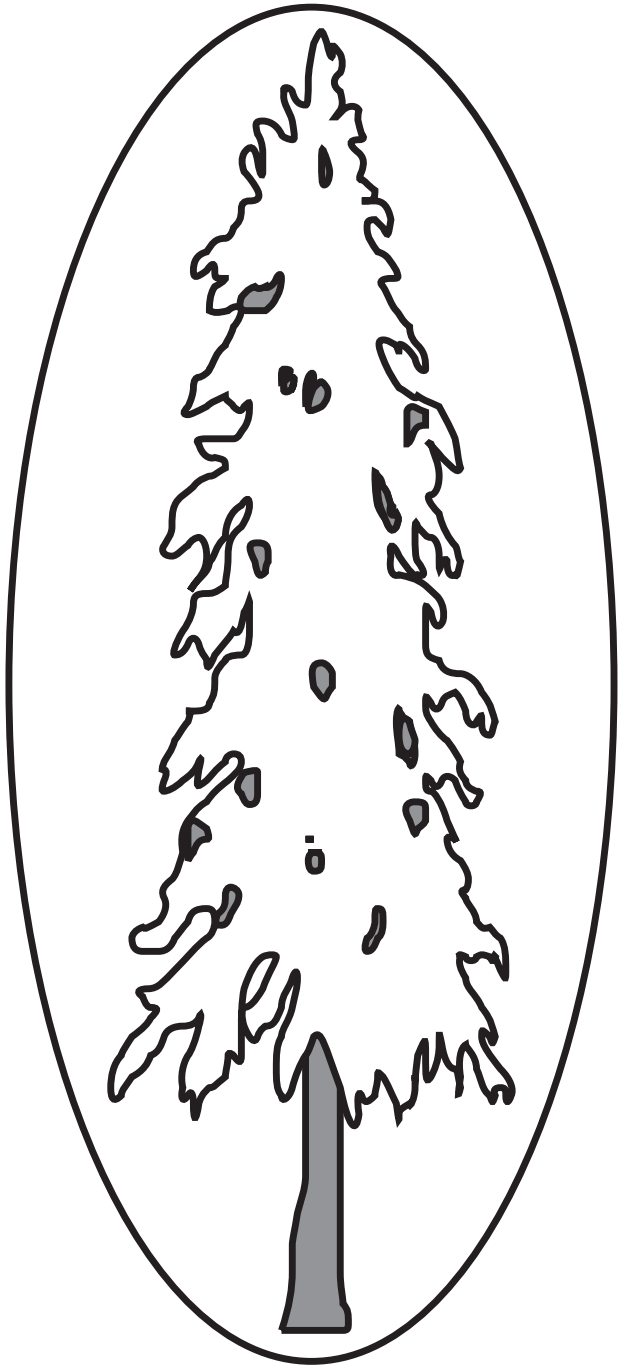


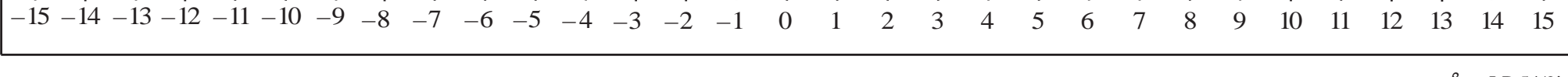
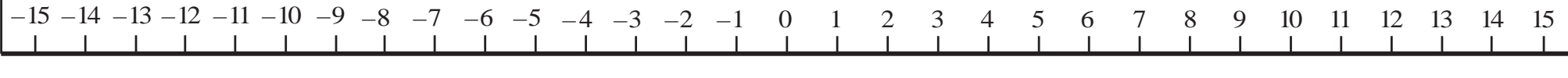
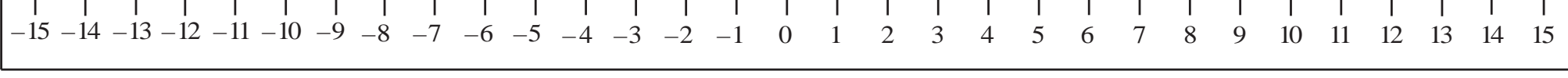
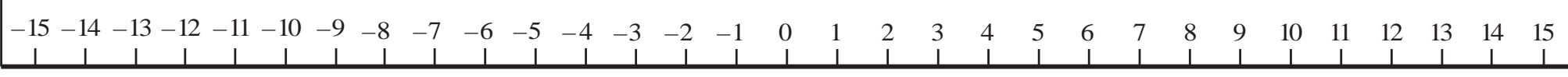
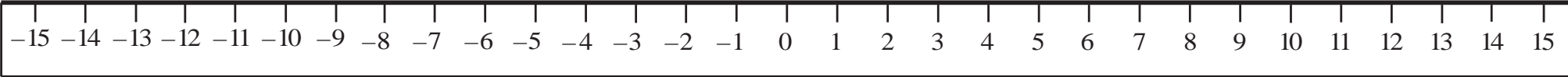
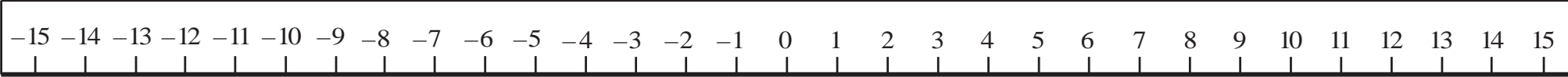
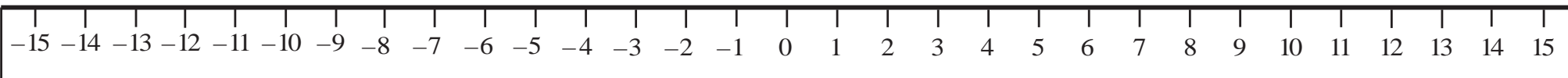
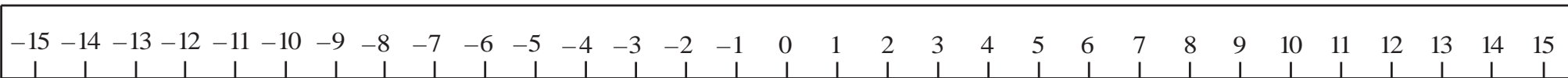
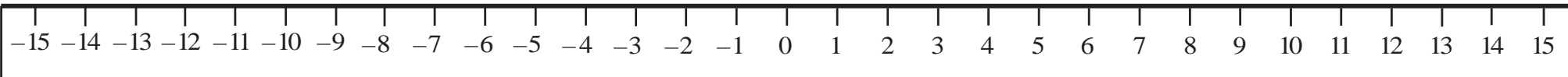
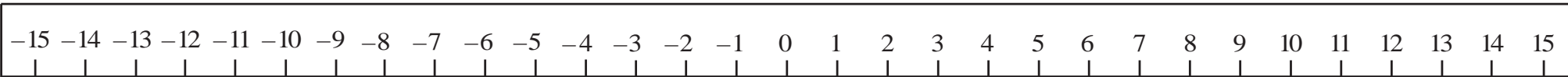




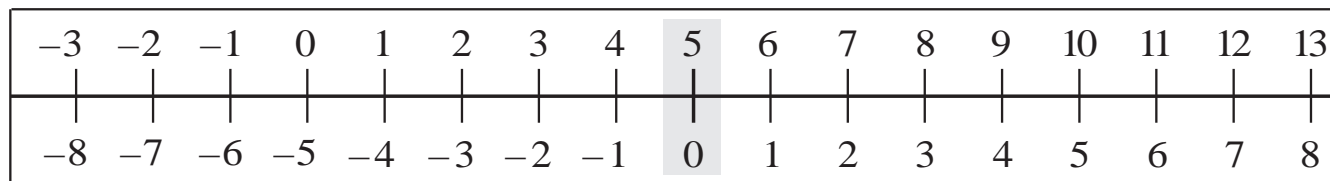






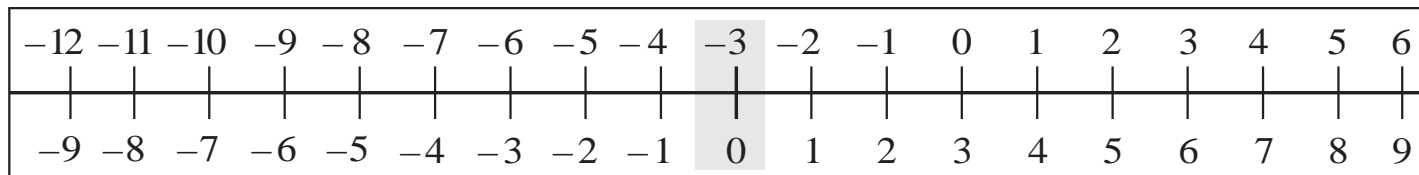


a)



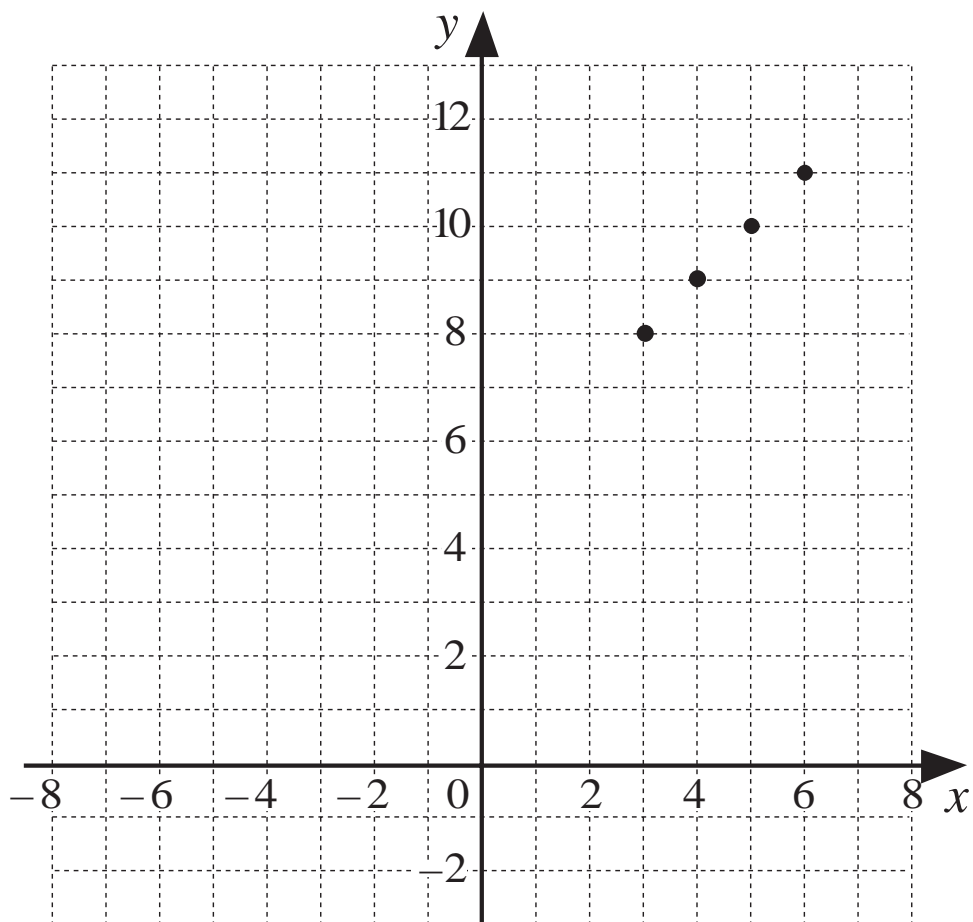
$(+ 5) + (+ 6) = \boxed{11}$	$(+ 5) + (+ 1) = \boxed{}$	$(+ 5) + (- 4) = \boxed{}$
$(+ 5) + (+ 5) = \boxed{}$	$(+ 5) + 0 = \boxed{}$	$(+ 5) + (- 5) = \boxed{}$
$(+ 5) + (+ 4) = \boxed{}$	$(+ 5) + (- 1) = \boxed{}$	$(+ 5) + (- 6) = \boxed{}$
$(+ 5) + (+ 3) = \boxed{}$	$(+ 5) + (- 2) = \boxed{}$	$(+ 5) + (- 7) = \boxed{}$
$(+ 5) + (+ 2) = \boxed{}$	$(+ 5) + (- 3) = \boxed{}$	$(+ 5) + (- 8) = \boxed{}$

b)

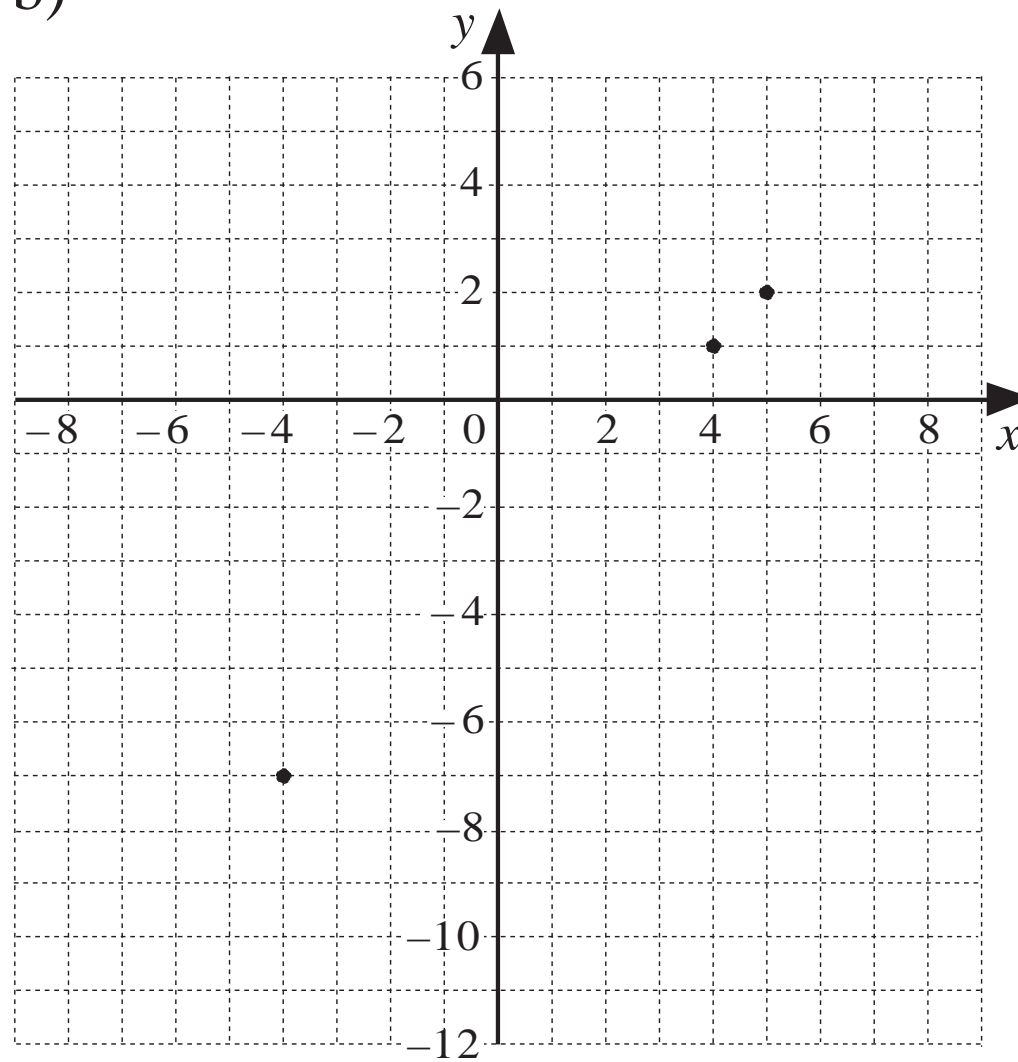


$(- 3) + (+ 5) = \boxed{}$	$(- 3) + 0 = \boxed{}$	$- 3 + (- 5) = \boxed{}$
$(- 3) + (+ 4) = \boxed{}$	$(- 3) + (- 1) = \boxed{}$	$- 3 + (- 6) = \boxed{}$
$(- 3) + (+ 3) = \boxed{}$	$(- 3) + (- 2) = \boxed{}$	$- 3 + (- 7) = \boxed{}$
$(- 3) + (+ 2) = \boxed{}$	$(- 3) + (- 3) = \boxed{}$	$- 3 + (- 8) = \boxed{}$
$(- 3) + (+ 1) = \boxed{}$	$(- 3) + (- 4) = \boxed{-7}$	$- 3 + (- 9) = \boxed{}$

a)



b)



+	-3	-2	-1	0	+1	+2	+3
-3	-6						
-2						0	+1
-1							
0					+1	+2	+3
+1					+2	+3	+4
+2							
+3		+1					

a) $+3 + (-1) =$

b) $-1 + (-2) =$

c) $-3 + (-2) =$

d) $+3 + (-3) =$

e) $0 + (-3) =$

f) $+2 + (-3) =$

g) $-1 + 0 =$

a)

	3	2	4
1	0	9	2
+		9	2

b)

	5	9	2
		8	4
+	1	7	5

c)

	2	0	0	7
		7	4	8
+	1	9	8	0

d)

	6	2	4	7
3	1	4	8	2
+		3	7	6

LP 55/3

a)

	4	8	4	0
-	2	7	6	8

b)

	5	7	2	8
-	1	7	4	2

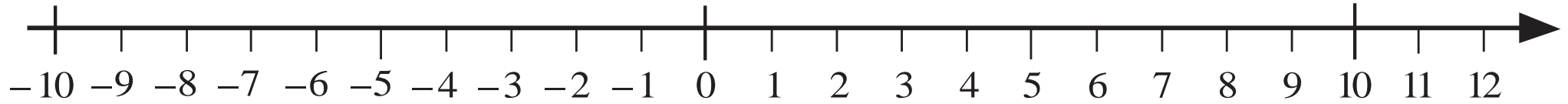
c)

	3	0	0	0
-	1	6	4	2

d)

	2	1	3	0	5
-		1	4	8	8

LP 55/5



LP 56/5i

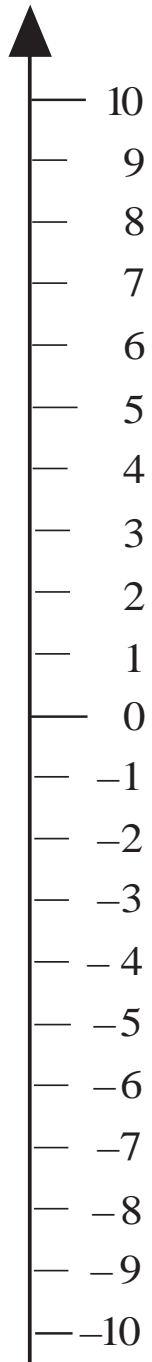


subtrahend



reductant

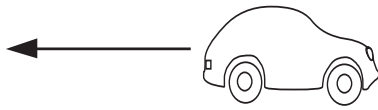
 LP 56/5ii



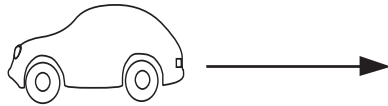
- a) 3°C is greater than -6°C by $^{\circ}\text{C}$
 So $3 - (-6) = 9$ *Check:* $9 + (-6) = 3$
-
- b) -6°C is less than 3°C by $^{\circ}\text{C}$
 So *Check:*
-
- c) 4 is less than 7 by
 So *Check:*
-
- d) 7 is greater than 4 by
 So *Check:*
-
- e) -8 is less than -2 by
 So *Check:*
-
- f) -2 is greater than -8 by
 So *Check:*
-

- a) Sue's starting balance was £2, as she had £5 in cash and was in debt. Then she spent £5.
How much is her balance now?
- b) Rob's starting balance was – £3, as he had in cash and was £5 in debt. Then he spent £2.
How much is his new balance?
- c) Billy's starting balance was – £3, as he had £1 in cash and was in debt. Then £4 of his debts were cancelled.
How much is his balance now?
- d) Mary's starting balance was , as she had £5 in cash and was £3 in debt. Then £3 of her debts were repaid.
What is her balance now?

a) $(+ 8) - (+ 2) =$



c) $(+ 2) - (+ 8) =$



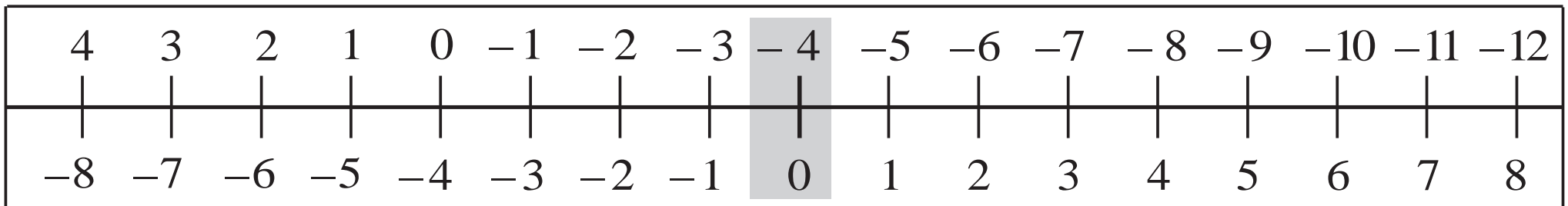
e) $(+ 4) - (+ 3) =$

b) $(- 8) - (- 2) =$

d) $(- 2) - (- 8) =$

f) $(- 4) - (- 3) =$

LP 58/8

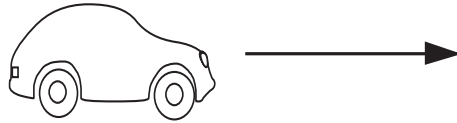


LP 59/3

a) $(+ 3) + (- 1) =$

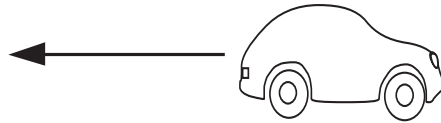
b) $(+ 3) + (- 5) =$

c) $(+ 3) + (+ 2) =$



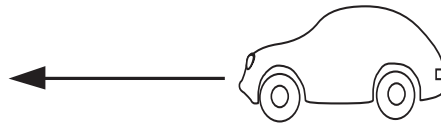
d) $(+ 3) + 0 =$

e) $(- 4) + (+ 1) =$



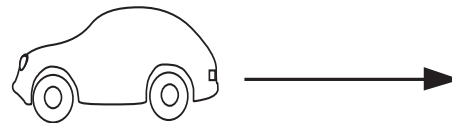
f) $(- 4) + (+ 6) =$

g) $(- 4) + (- 3) =$



h) $(- 4) + 0 =$

i) $0 + (+ 2) =$



j) $0 + (- 3) =$

k) $(+ 3) - (+ 1) =$

l) $(+ 3) - (+ 5) =$

m) $(+ 3) - (- 2) =$

n) $(+ 3) - 0 =$

o) $(- 4) - (- 1) =$

p) $(- 4) - (- 6) =$

q) $(- 4) - (+ 3) =$

r) $(- 4) - 0 =$

s) $0 - (- 2) =$

t) $0 - (+ 3) =$

a)

a	8	7	6			3	2				-2	-3	-4
b	5	4		2	1			-2	-3	-4			

Rule:

b)

x	5	-1	2	0		7		3	-40		8		
y	-2	4	1		-3		100			11		6	8.5

Rule:

a)

$$(+4) - (+6) = \boxed{}$$

$$(+4) - (+5) = \boxed{}$$

$$(+4) - (+4) = 0$$

$$(+4) - (+3) = +1$$

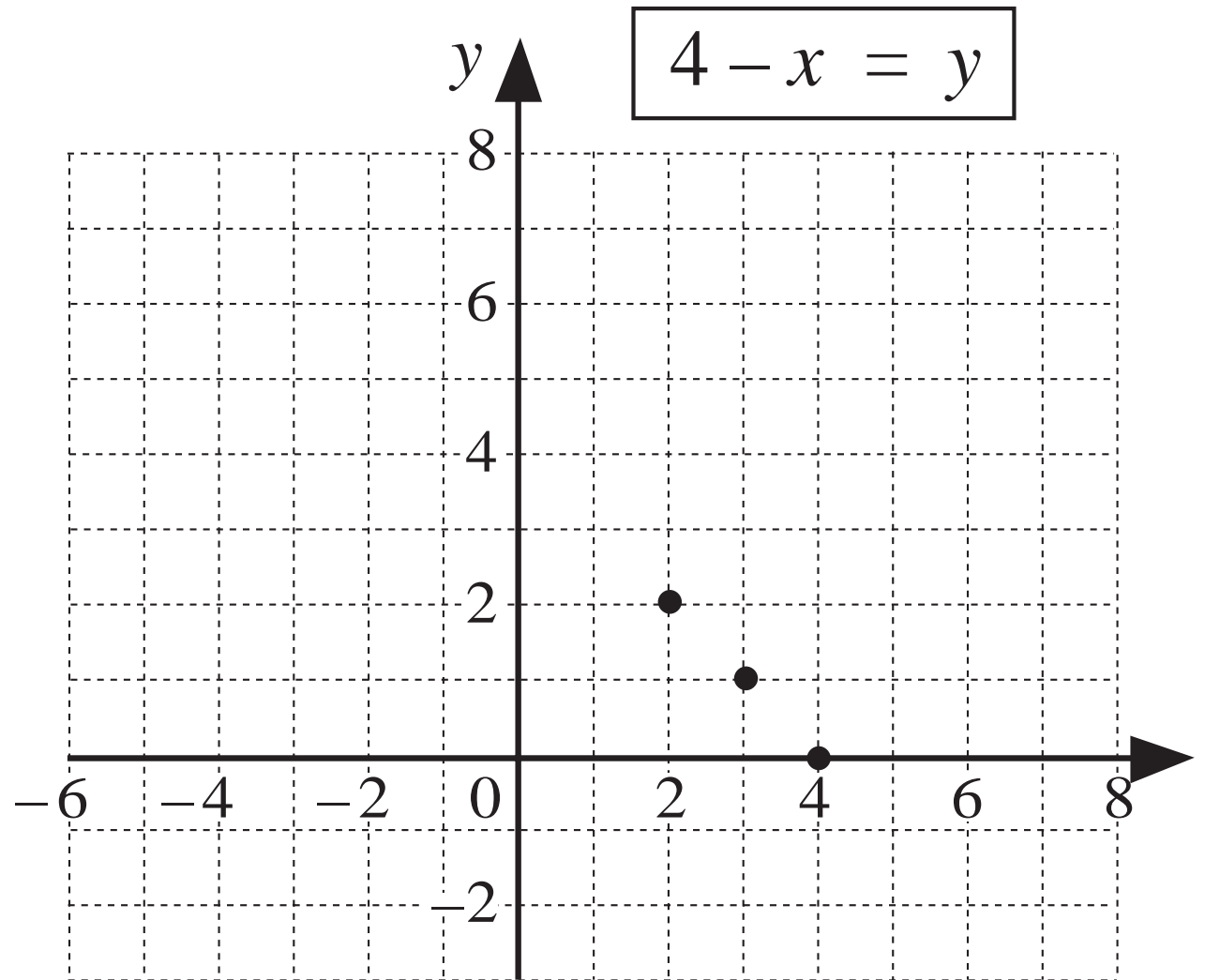
$$(+4) - (+2) = +2$$

$$(+4) - (+1) = +3$$

$$(+4) - 0 = +4$$

$$(+4) - (-1) = \boxed{}$$

$$(+4) - (-2) = \boxed{}$$



b)

$$(-4) - (+2) = \boxed{}$$

$$(-4) - (+1) = \boxed{}$$

$$(-4) - 0 = -4$$

$$(-4) - (-1) = -3$$

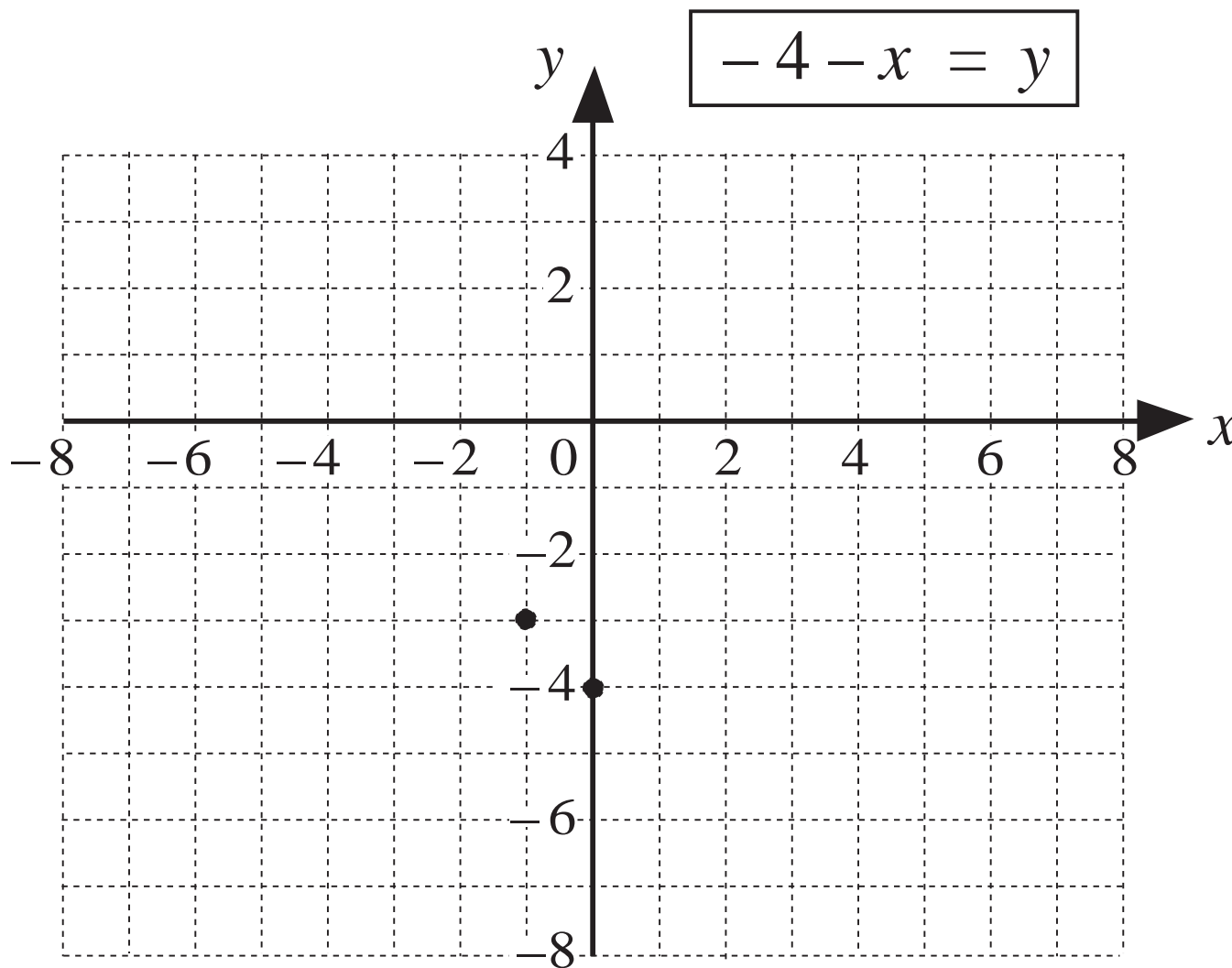
$$(-4) - (-2) = -2$$

$$(-4) - (-3) = \boxed{}$$

$$(-4) - (-4) = 0$$

$$(-4) - (-5) = \boxed{}$$

$$(-4) - (-6) = \boxed{}$$



a)

$$(+3) + (-5) =$$

$$(+3) + (-4) =$$

$$(+3) + (-3) =$$

$$(+3) + (-2) =$$

$$(+3) + (-1) =$$

$$(+3) + 0 =$$

$$(+3) + (+1) =$$

$$(+3) + (+2) =$$

$$(+3) - (+5) =$$

$$(+3) - (+4) =$$

$$(+3) - (+3) =$$

$$(+3) - (+2) =$$

$$(+3) - (+1) =$$

$$(+3) - 0 =$$

$$(+3) - (-1) =$$

$$(+3) - (-2) =$$

b)

$$(-3) + (-2) =$$

$$(-3) + (-1) =$$

$$(-3) + 0 =$$

$$(-3) + (+1) =$$

$$(-3) + (+2) =$$

$$(-3) + (+3) =$$

$$(-3) + (+4) =$$

$$(-3) + (+5) =$$

$$(-3) - (+2) =$$

$$(-3) - (+1) =$$

$$(-3) - 0 =$$

$$(-3) - (-1) =$$

$$(-3) - (-2) =$$

$$(-3) - (-3) =$$

$$(-3) - (-4) =$$

$$(+3) - (-5) =$$

a)

	2	7	4
	×	2	3

b)

		4	7
	×	2	6

c)

		6	1	2
	×	1	0	7

d)

		4	6	7
	×	2	0	5

LP 60/3

a)

6	4	8	9

b)

9	4	2	6	3

c)

2	1	6	1	5	0

d)

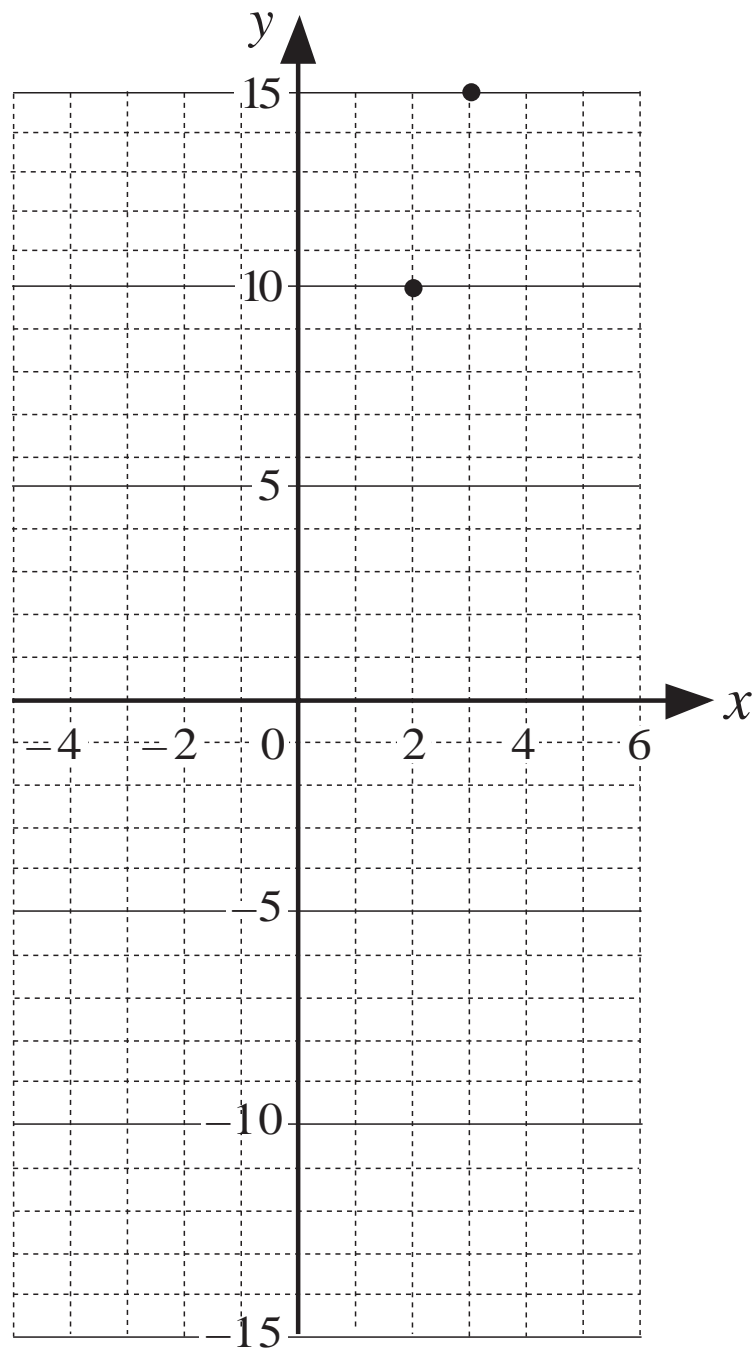
1	8	4	9	2

LP 60/7



H Th	T Th	Th	H	T	U

- $5 \times 3 =$
 $5 \times 2 =$
 $5 \times 1 =$
 $5 \times 0 =$
 $5 \times (-1) =$
 $5 \times (-2) =$
 $5 \times (-3) =$



$$5 \times x = y$$

$9 \div 3 = \boxed{}$

$6 \div 3 = \boxed{}$

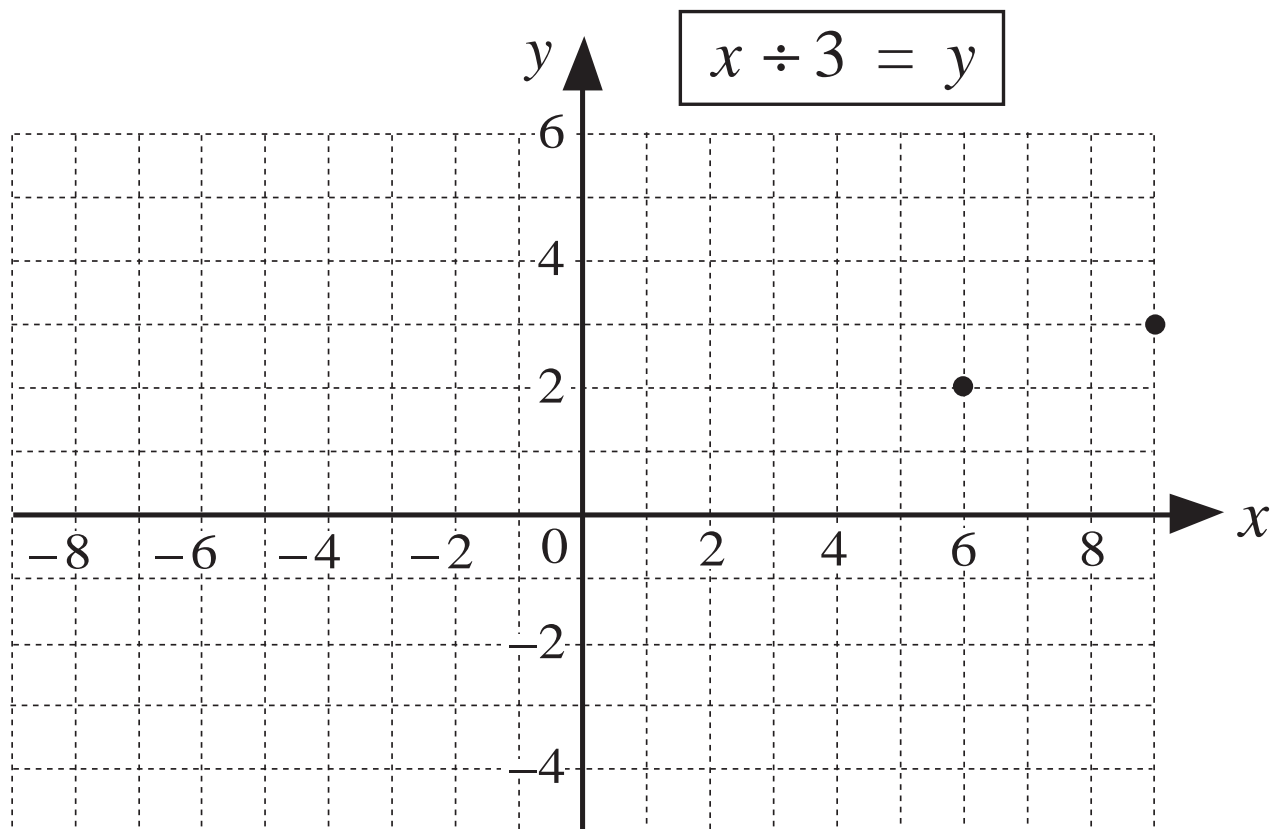
$3 \div 3 = \boxed{}$

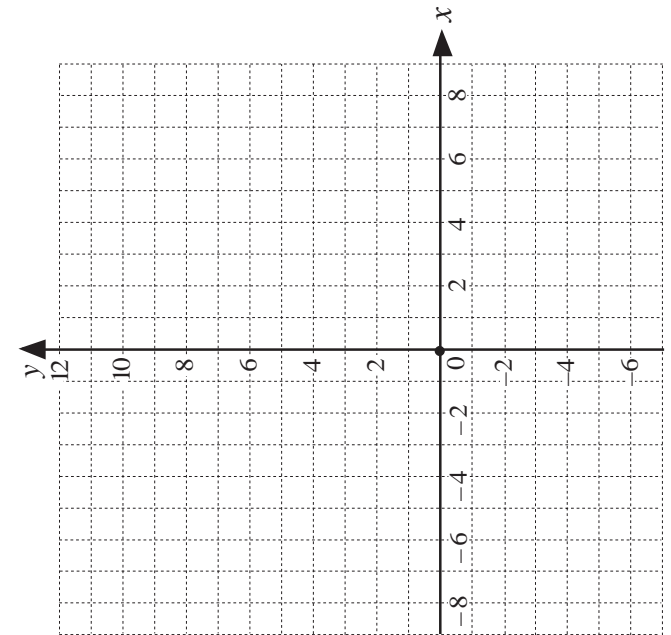
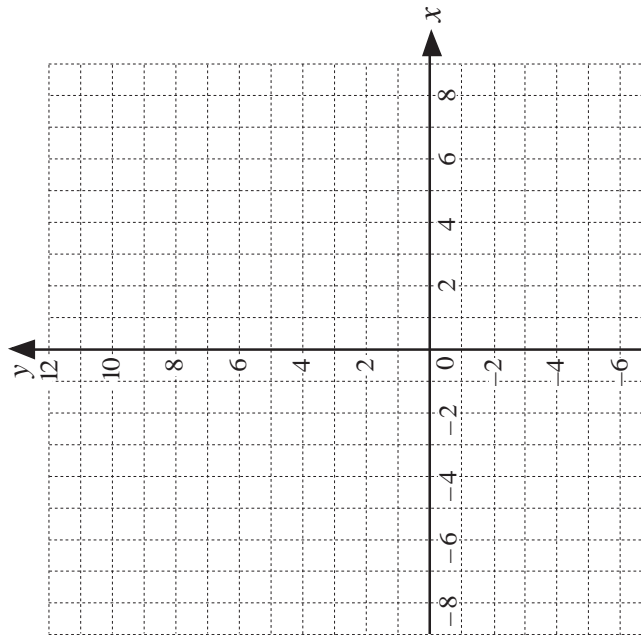
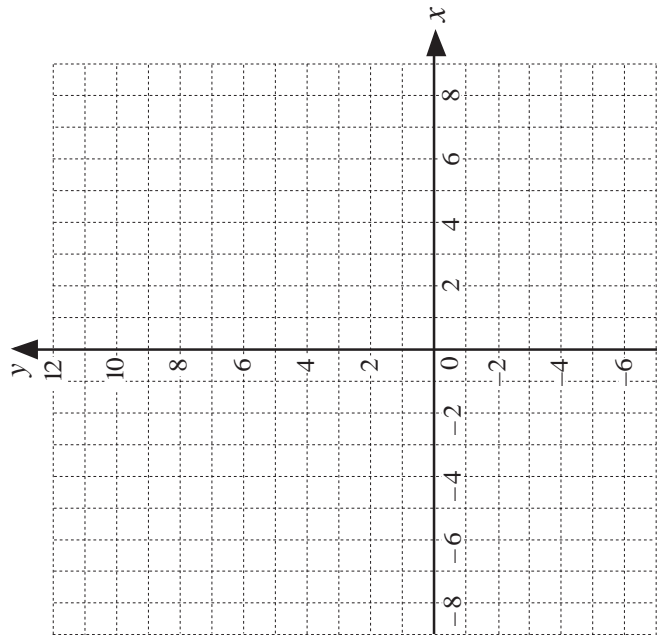
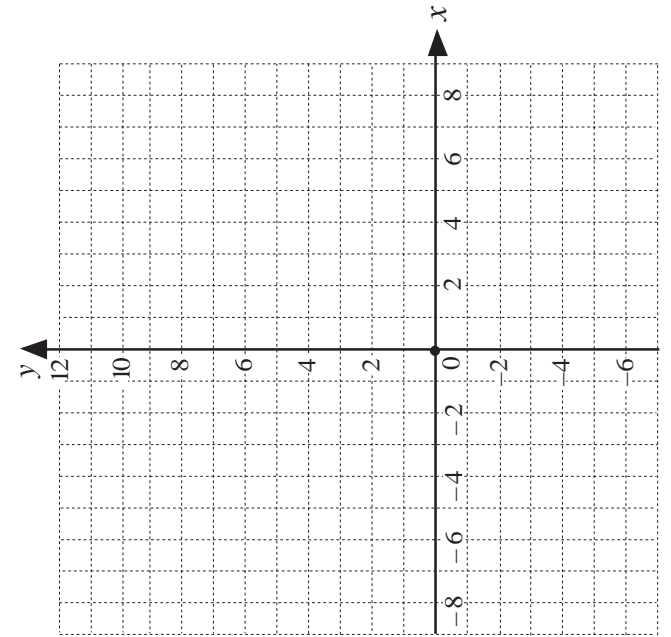
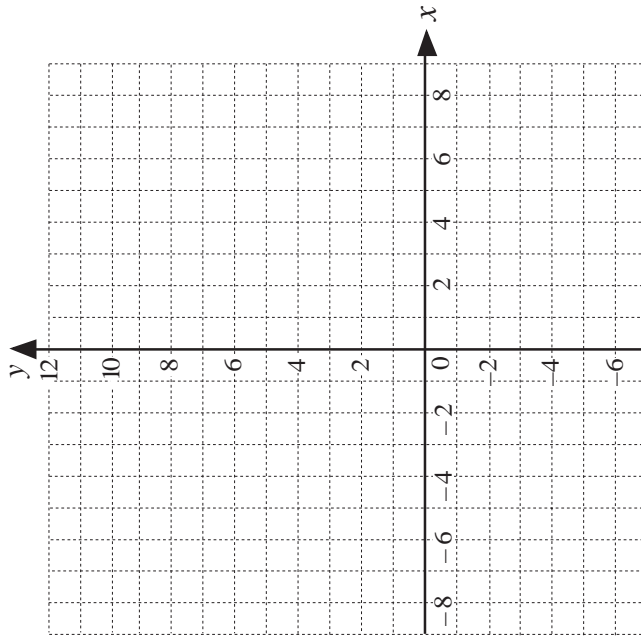
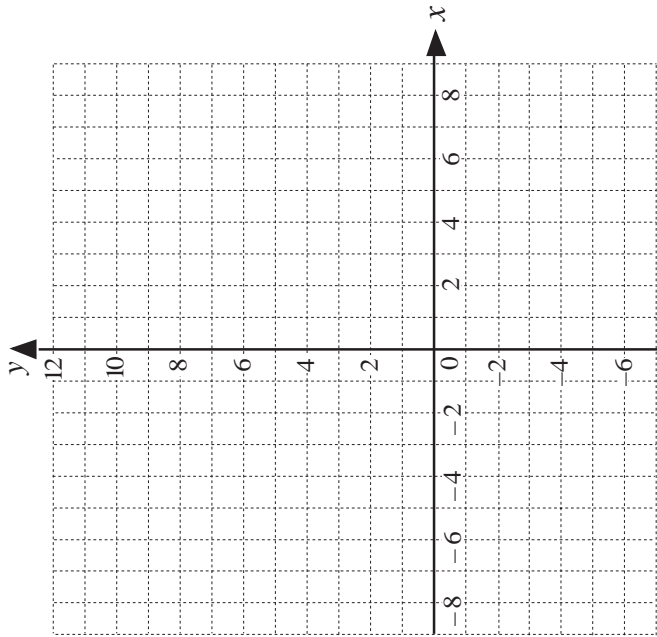
$0 \div 3 = \boxed{}$

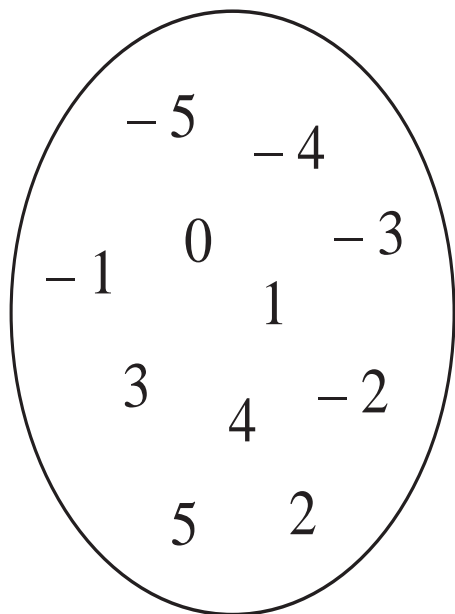
$-3 \div 3 = \boxed{}$

$-6 \div 3 = \boxed{}$

$-9 \div 3 = \boxed{}$







Statement	Numbers which make it true	Numbers which make it false
$5 - \square = 8$		
$6 + \square = 1$		
$\square < 3$		
$5 - \square > 6$		
$4 + \square \leq 8$		

a) $-4 - \square = -18$

$\square : \dots\dots\dots$

b) $-\bigcirc < 1$

$\bigcirc : \dots\dots\dots$

c) $13 + \triangle = -10$

$\triangle = \dots\dots\dots$

d) $-3 - \square \leq -15$

$\square : \dots\dots\dots$

e) $10 - \bigcirc = 15$

$\bigcirc = \dots\dots\dots$

f) $\triangle - (-2) > 5$

$\triangle : \dots\dots\dots$

g) $\square + (-3) = -5$

$\square = \dots\dots\dots$

h) $-8 - \bigcirc > -1$

$\bigcirc : \dots\dots\dots$

i) $-10 + (-x) = -11$

$x = \dots\dots\dots$

a) $\square \times 6 \geq -18$

$\square : \dots\dots\dots$

b) $+8 \times \bigcirc \leq 0$

$\bigcirc : \dots\dots\dots$

c) $\triangle \times 4 = \triangle + (-12)$

$\triangle = \dots\dots\dots$

d) $\frac{-24}{\square} = -6$

$\square = \dots\dots\dots$

e) $\bigcirc \div 5 = -3$

$\bigcirc = \dots\dots\dots$

f) $(-5) + \triangle < +6$

$\triangle : \dots\dots\dots$

a)

x		4		- 1		0		17		- 29						- 1024		+ 12					
y		- 4		1		0		- 17				165		- 40						+ 309		4	

$y =$ $x =$

b)

a		5		- 4		+ 11		0		+ 105		- 48						+ 2183		- 536	
b		5		4		+ 11		0						+ 382		+ 382					

$b =$

a) $13 - \square > 10$

 $\square : \dots\dots\dots$

b) $-10 + (-\bigcirc) < -11$

 $\bigcirc : \dots\dots\dots$

c) $\triangle \div 5 = -7$

 $\triangle = \dots\dots\dots$

d) $(-4) \times \square > -24$

 $\square : \dots\dots\dots$

e) $-12 + 2 \times \bigcirc = -16$

 $\bigcirc = \dots\dots\dots$

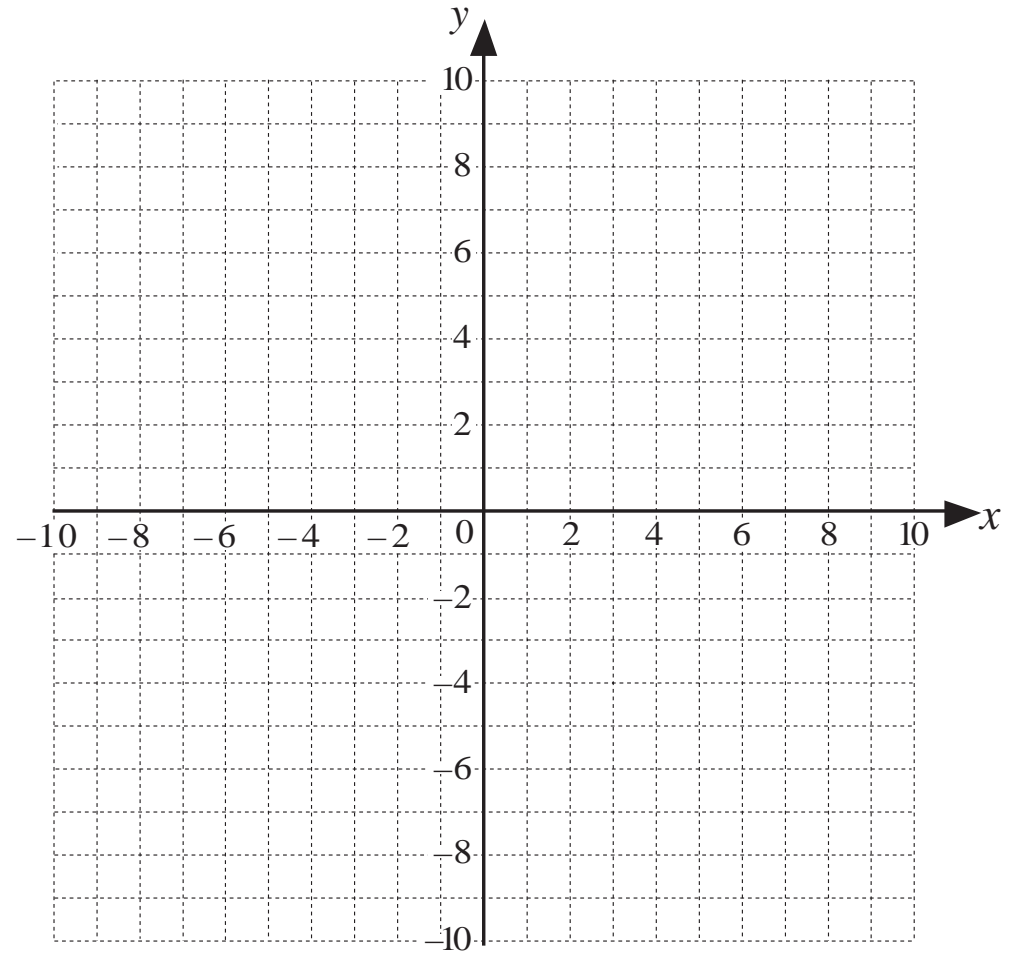
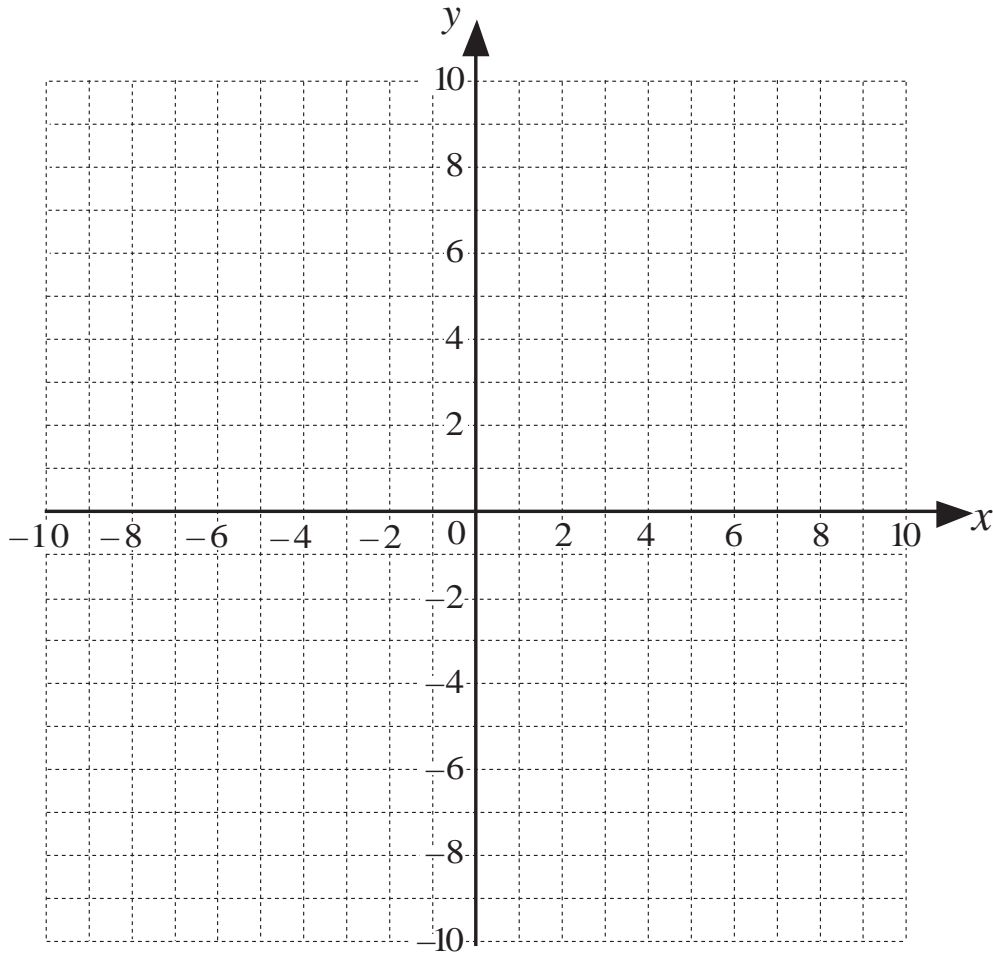
f) $\triangle \div (+3) = -6$

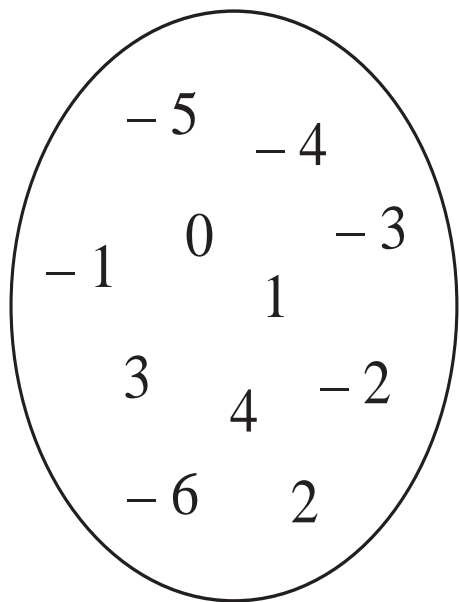
 $\triangle = \dots\dots\dots$

LP 64/11

x	$+3$	$+5$	-1	0	$+8$			
y	$+1$	-1				$+9$		

LP 64/12i





Statement	Numbers which make it true	Numbers which make it false
$6 - \square = 9$		
$6 + \square = 0$		
$\square < 2$		
$3 - \square > 4$		
$4 + \square \leq 2$		

LP 65/3

x	-3	+4	+1	-5			-1	+2		-4	+5
y	+2	-5			+1	-1			-4		

Rule:

LP 65/4i

a) $6 + 8 =$

b) $24 + 5 =$

c) $32 + 19 =$

d) $250 + 190 =$

e) $13 - 8 =$

f) $26 - 12 =$

g) $54 - 18 =$

h) $350 - 140 =$

i) $6 \times 7 =$

j) $14 \times 5 =$

k) $6 \times 90 =$

l) $18 \times 100 =$

m) $30 \div 5 =$

n) $42 \div 7 =$

o) $150 \div 10 =$

p) $250 \div 10 =$

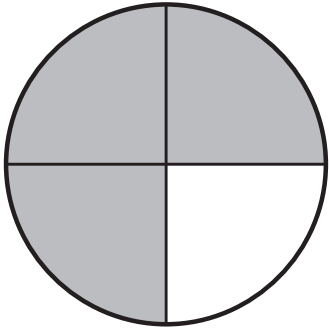


LP 66/6

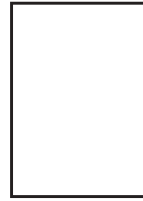
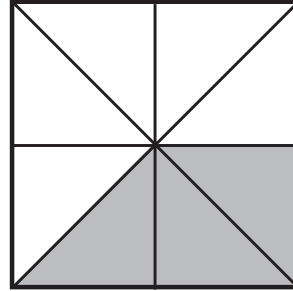
x	7	8	9	5		6	7	10	6	0
y	3	2	5	8	9		7		11	30
z	22	17	46		82	61		81		

LP 66/9

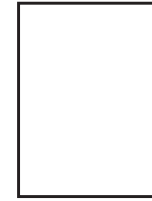
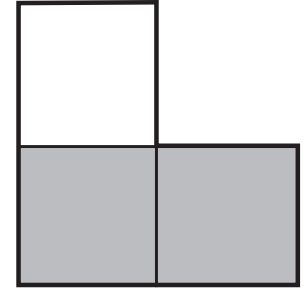
a) 1 unit



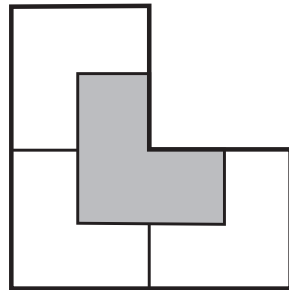
b) 1 unit



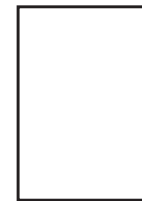
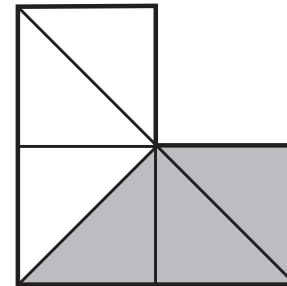
c) 1 unit



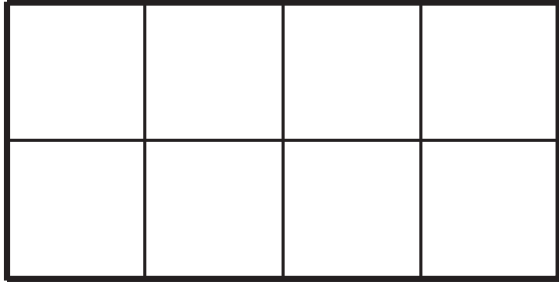
d) 1 unit



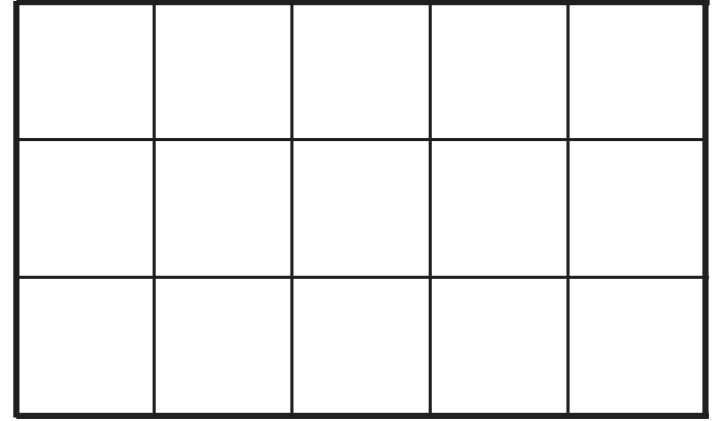
e) 1 unit



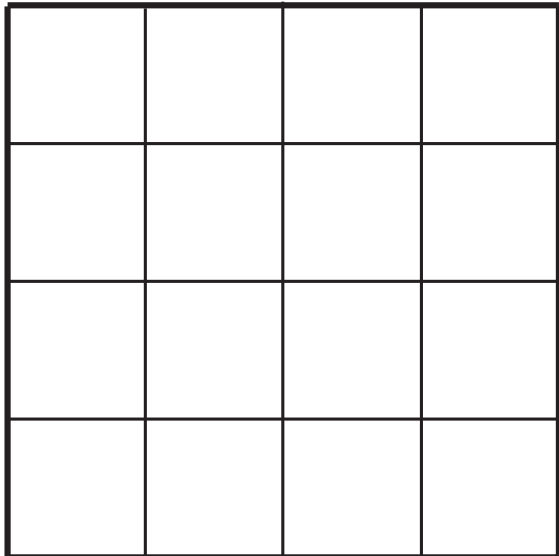
a)



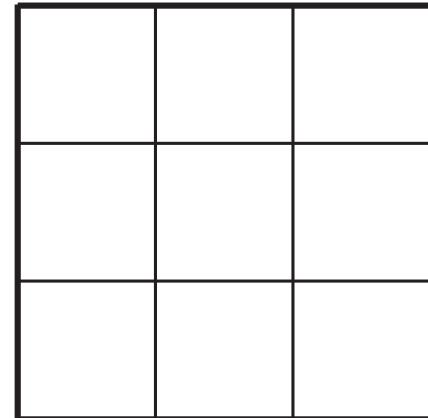
b)

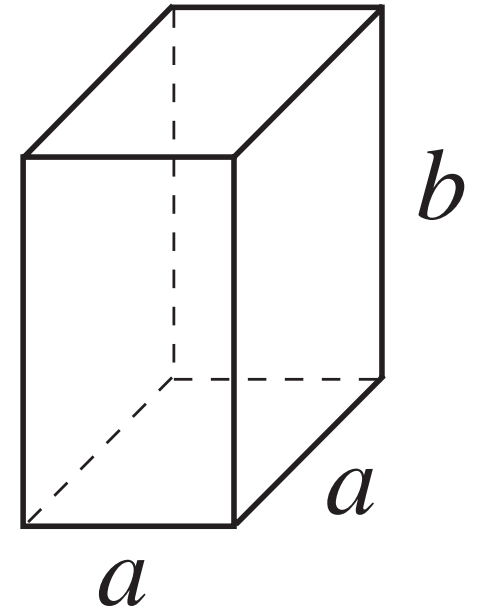
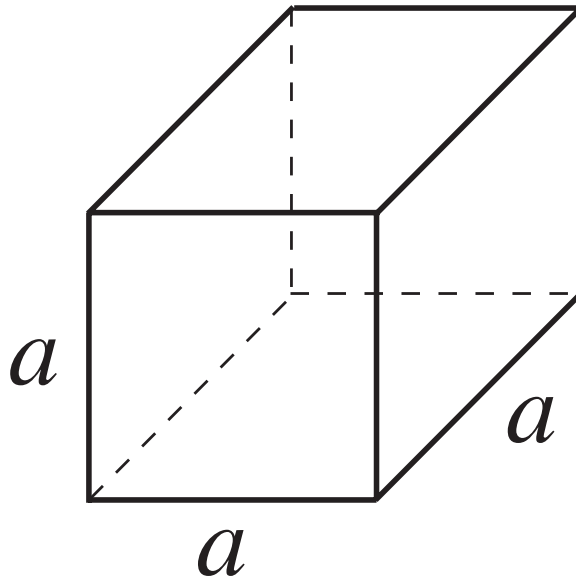
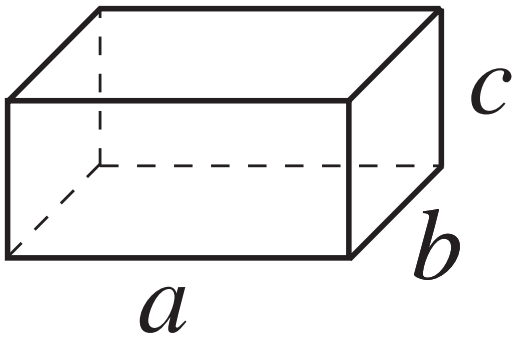
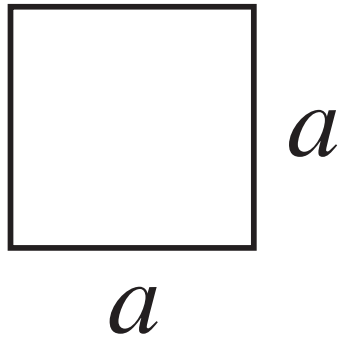
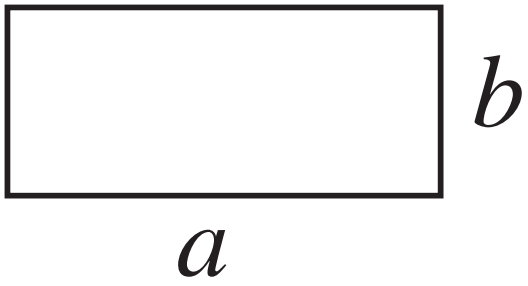



c)



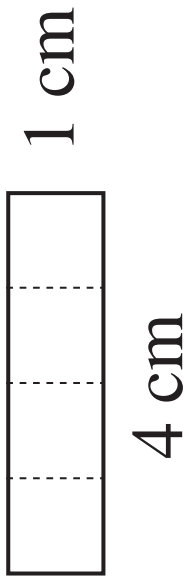
d)



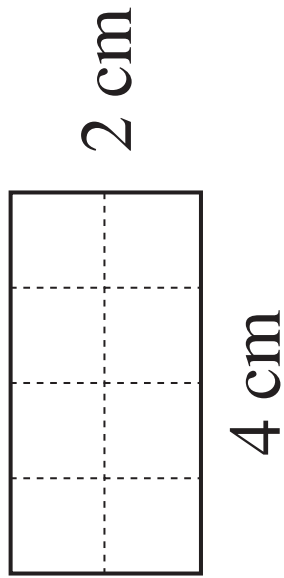


Unit of area:  1 cm = 1 cm²
1 cm

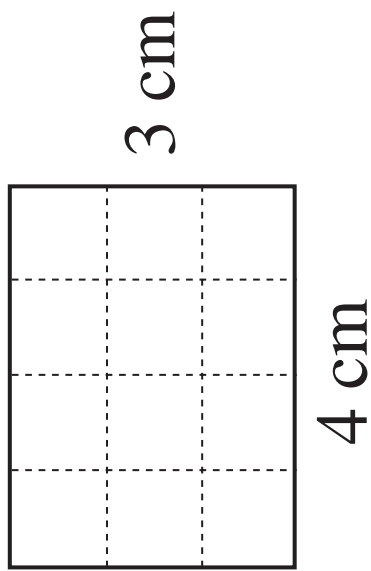
①



②



③

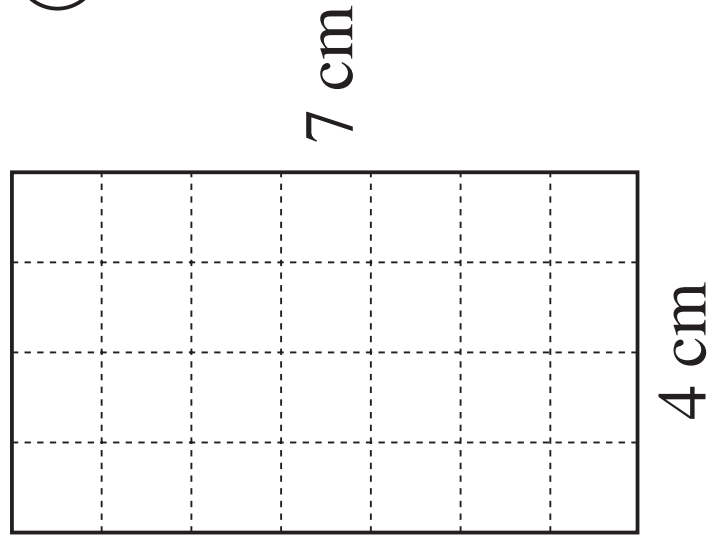


$$A_1 =$$

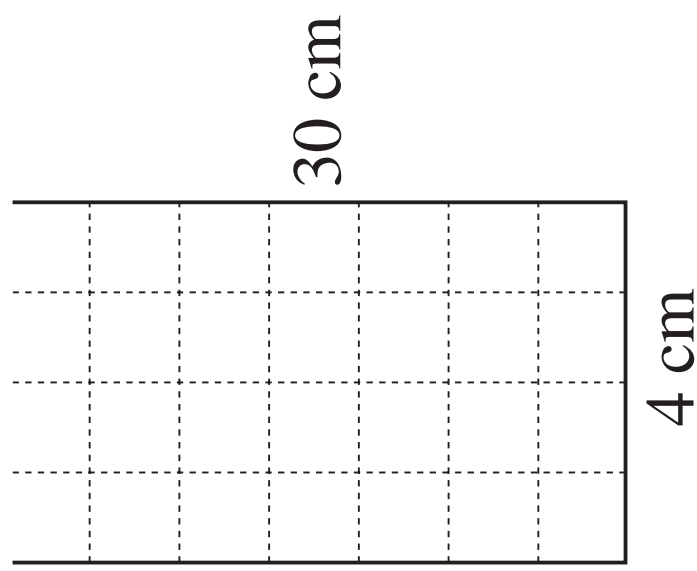
$$A_3 =$$

$$A_2 =$$

④



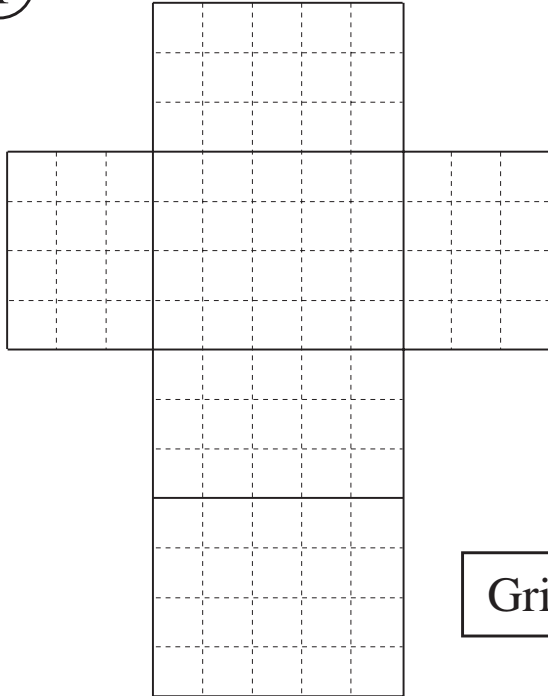
⑤



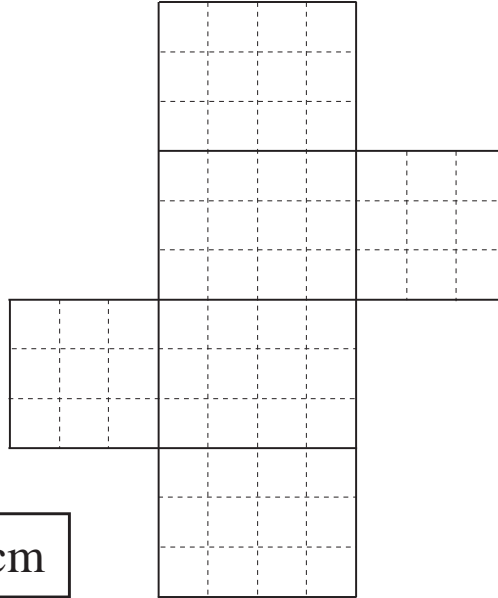
$$A_4 =$$

$$A_5 =$$

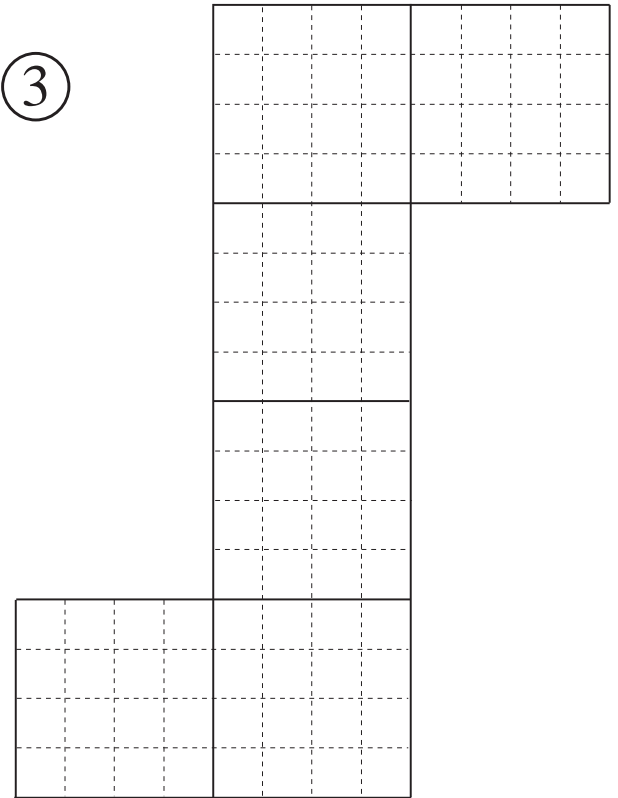
①



②



③


Scale

Grid unit: 1 cm

$A = \dots\dots\dots$

$A = \dots\dots\dots$

$A = \dots\dots\dots$

$V = \dots\dots\dots$

$V = \dots\dots\dots$

$V = \dots\dots\dots$

- a) We can work out the **perimeter** of a rectangle if we add the lengths of its sides.

$$P_{\text{rectangle}} = a + b + a + b = 2a + 2b = 2 \times (a + b)$$

$$P_{\text{square}} = a + a + a + a = 4 \times a$$

- b) We can work out the **area** of a rectangle if we multiply two adjacent sides.

$$A_{\text{rectangle}} = a \times b$$

$$A_{\text{square}} = a \times a$$

- c) We can work out the **surface area** of a cuboid if we add the area of its faces.

$$A_{\text{cuboid}} = 2 \times (a \times b + a \times c + b \times c)$$

$$A_{\text{square-based cuboid}} = 2 \times (a \times a) + 4 \times (a \times b)$$

$$A_{\text{cube}} = 6 \times a \times a$$

d) We can work out the **volume** of a cuboid if we multiply the lengths of the 3 edges which meet at a vertex.

$$V_{\text{cuboid}} = a \times b \times c$$

$$V_{\text{square-based cuboid}} = a \times a \times b$$

$$V_{\text{cube}} = a \times a \times a$$

<i>a</i>									
<i>b</i>									
<i>c</i>									

LP 68/3

No. of cards
per envelope

No. of
envelopes

--	--	--	--	--	--	--	--	--	--

a)

a	8	0	14	7		13	29		28
b	22	30	16		20			-1	

Rule:

b)

x	26	42	88	110		98	1410		1
y	13	21	44		33			-400	

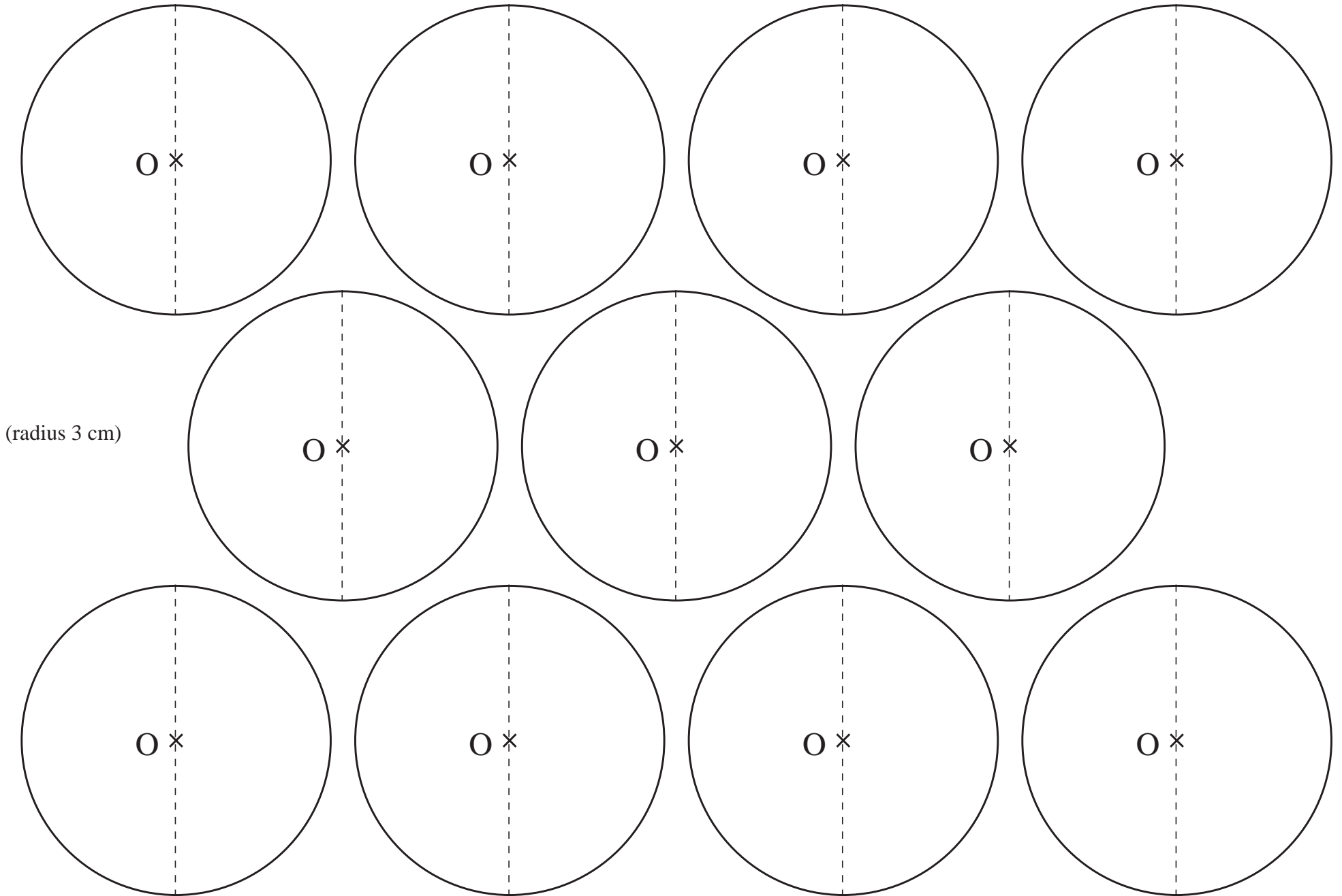
Rule:

x	4	5	2	4	5	10	6		9	
y	2	3	9	7	5			4	0	
z	7	14	17			9	35	19		20

Rule: $z =$

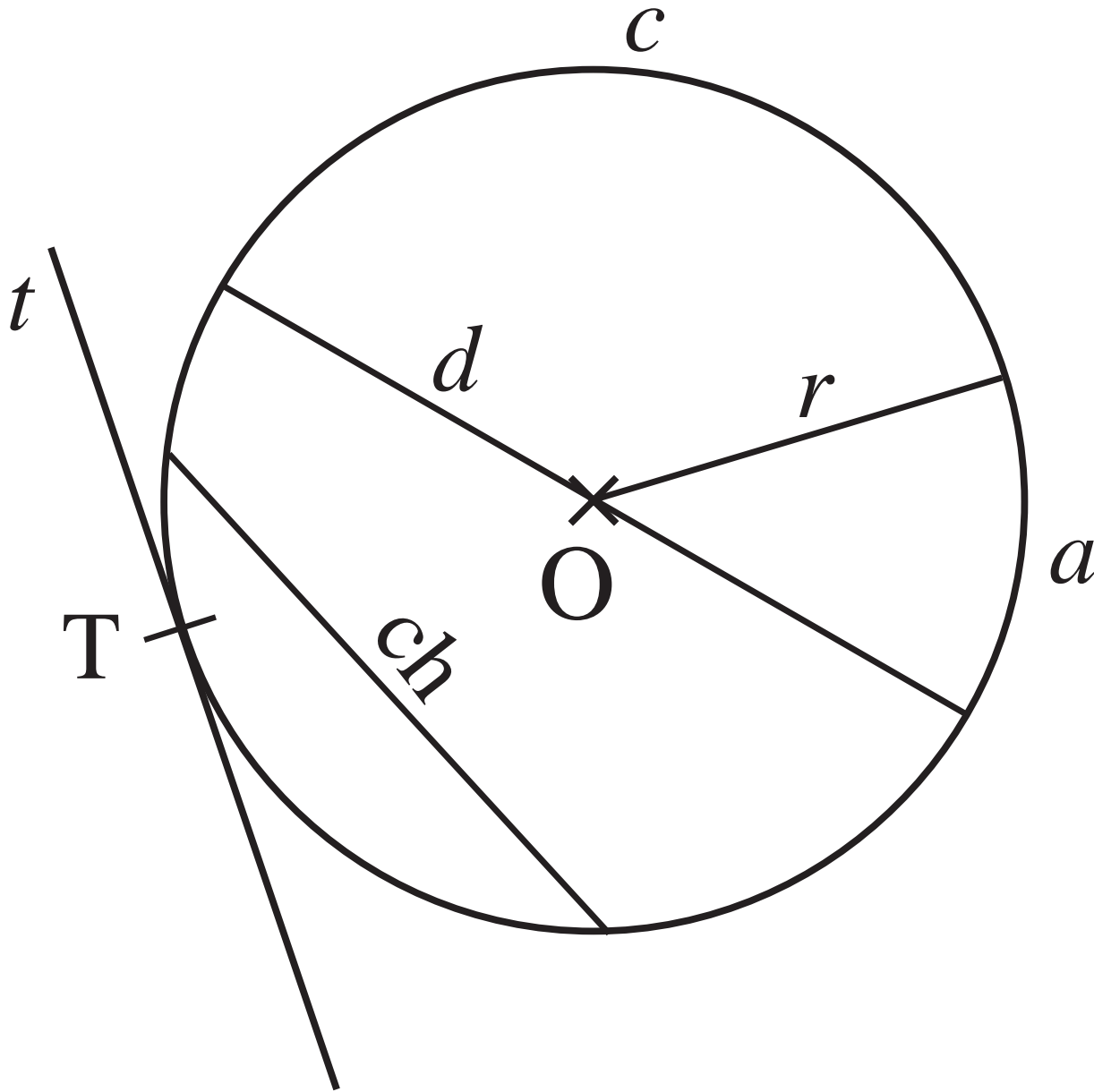
$y =$

$x =$



Stick straws behind dotted lines.

- a) The **circumference** of a circle is the set of points in a plane which are a given distance (not zero) from a given point in the **plane**.
- b) A **circle** is the set of points in a plane which are equal to or **less than** a given distance from a point in the plane.
- c) The surface of a sphere is the set of points in **space** which are a given **distance** (not zero) from a given point in space.
- d) A **sphere** is the set of points in space which are equal to or less than a given distance from a **given point** in space.



circumference (c)

centre (O)

radius (r)

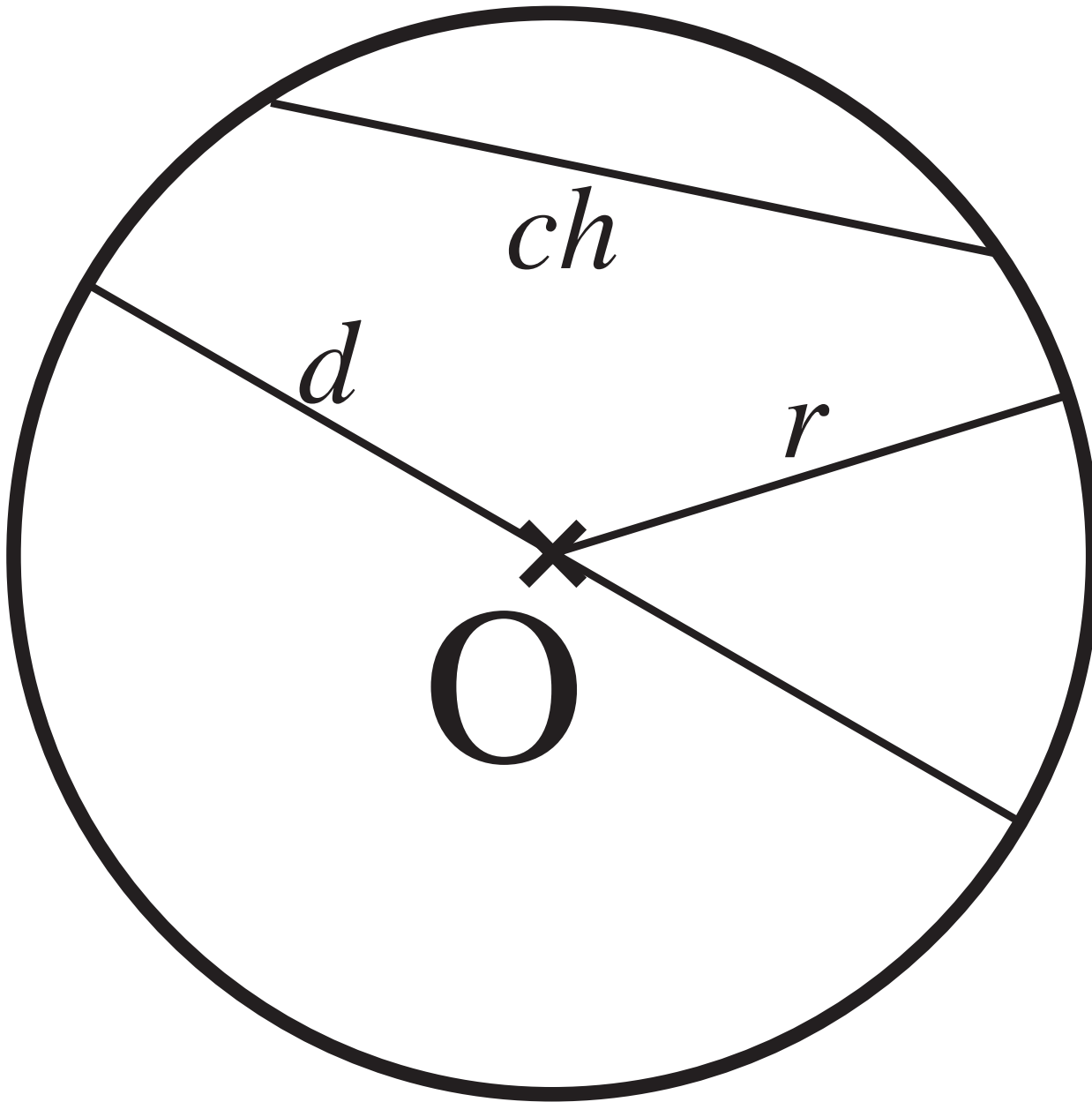
diameter (d)

arc (a)

chord (ch)

tangent (t)

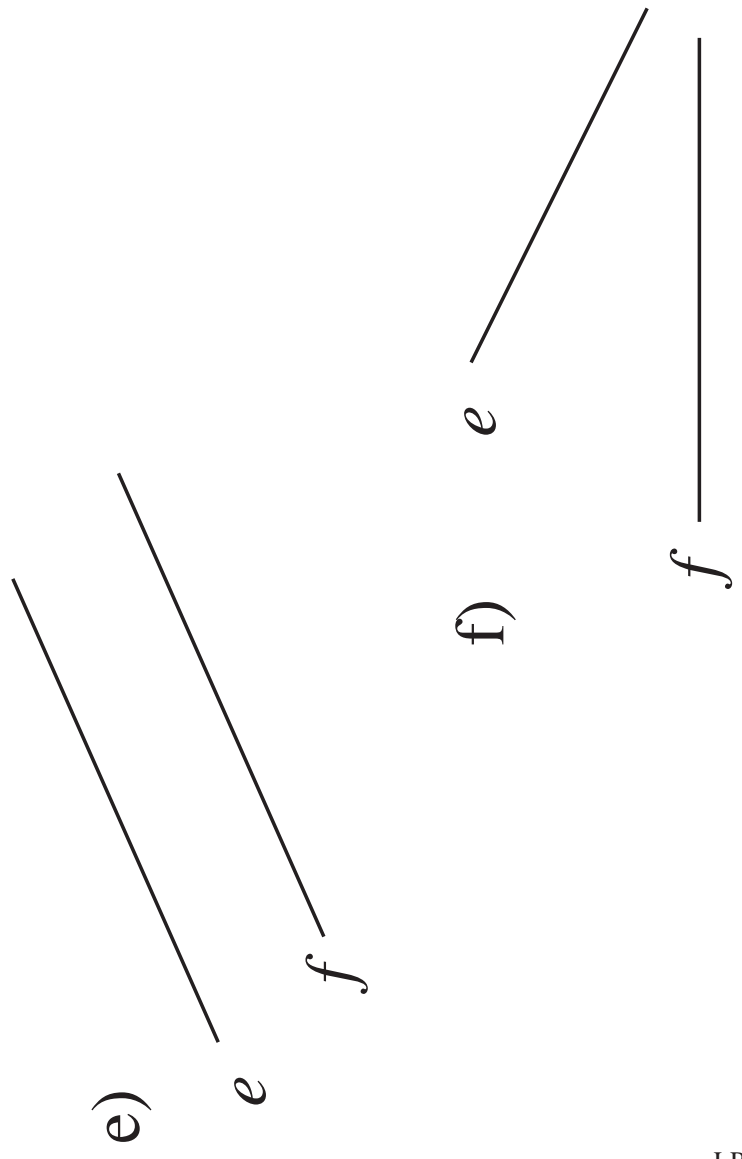
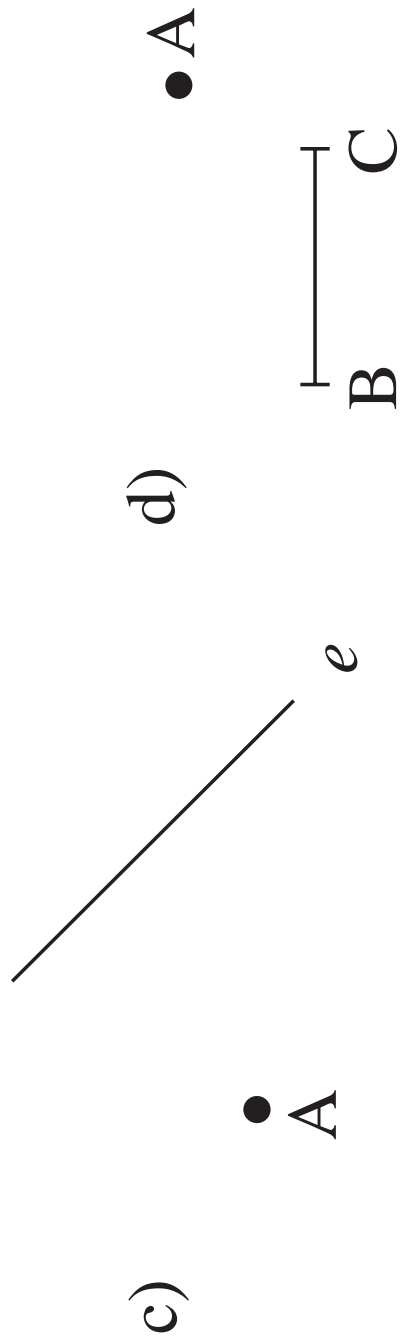
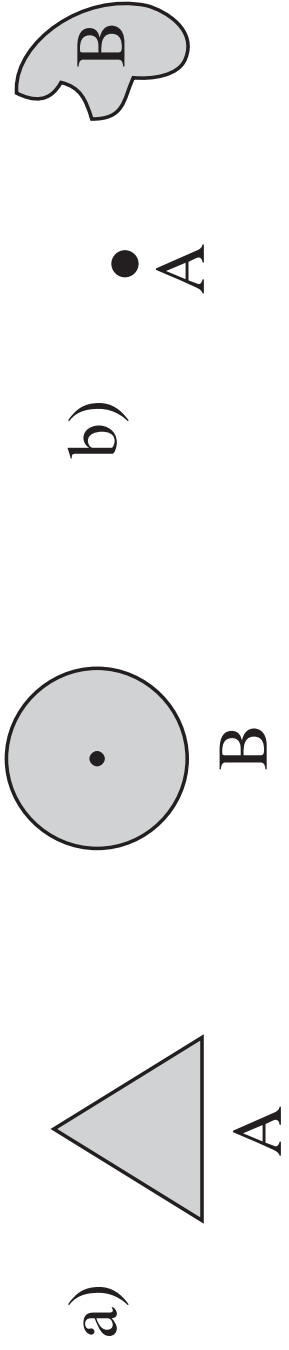
tangent point (T)

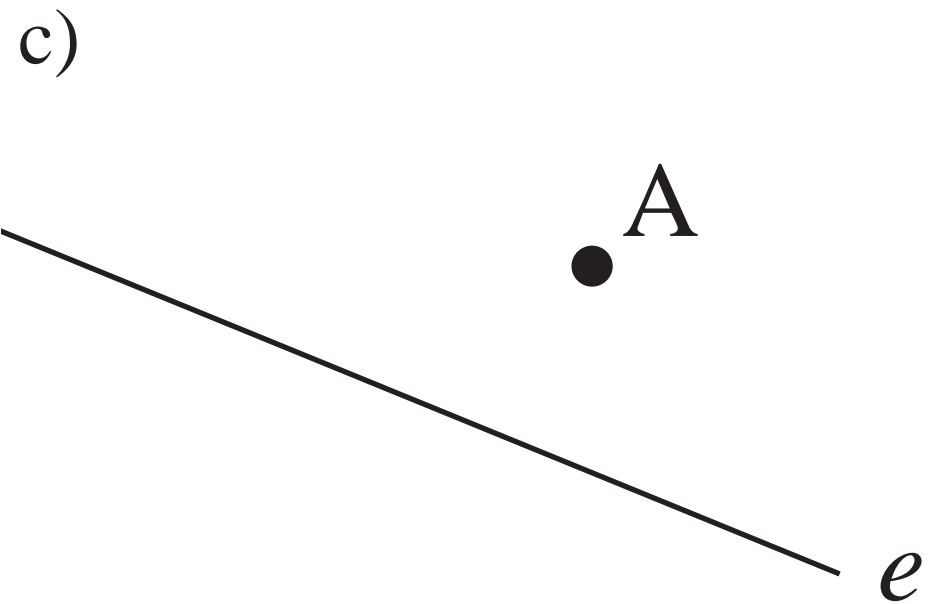
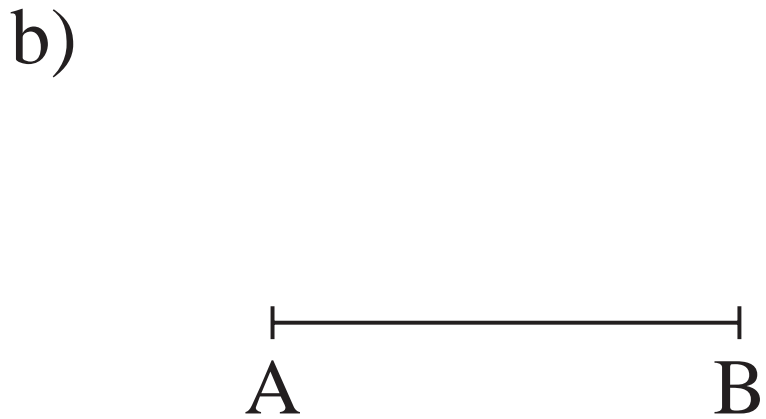
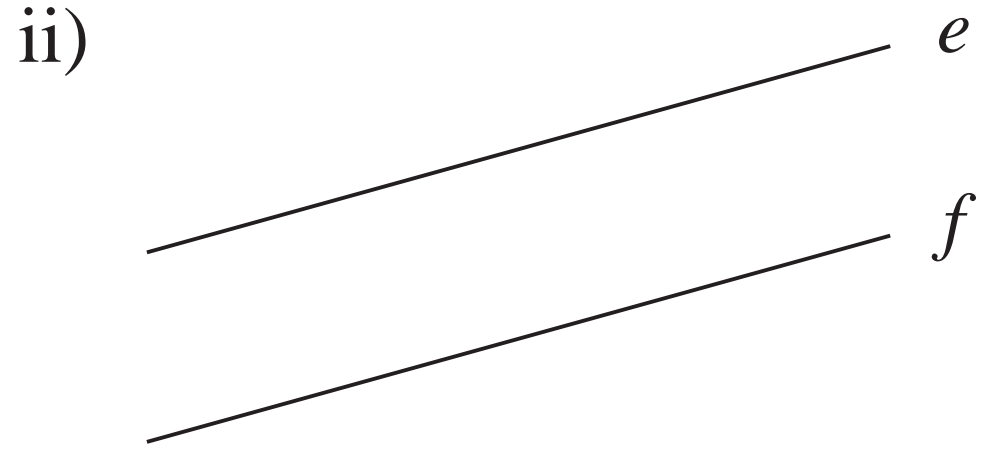
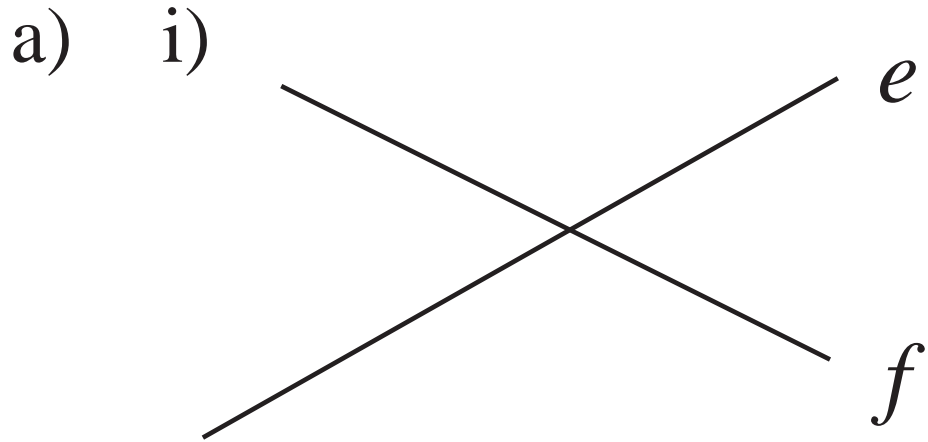


sector

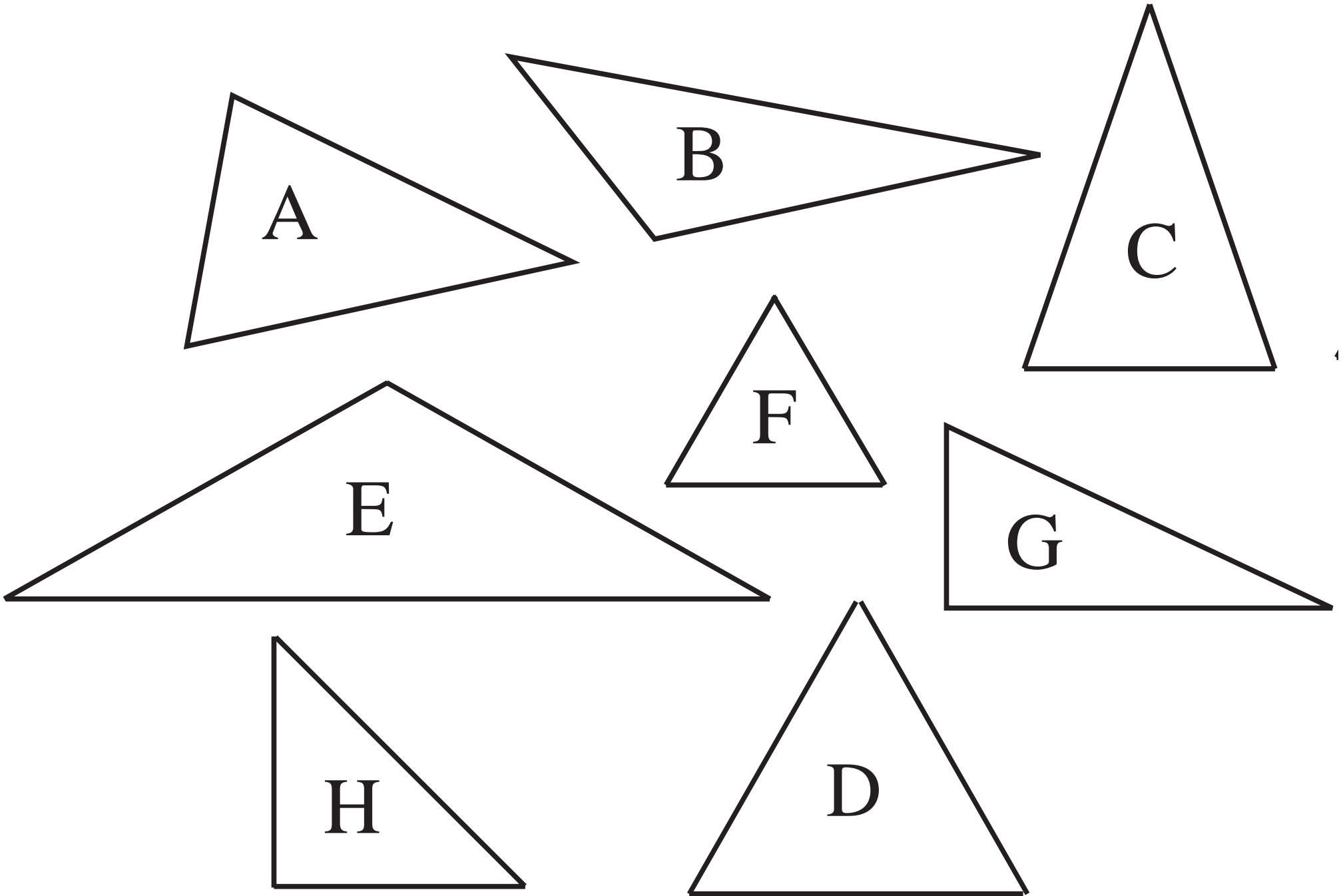
segment

semi-circle

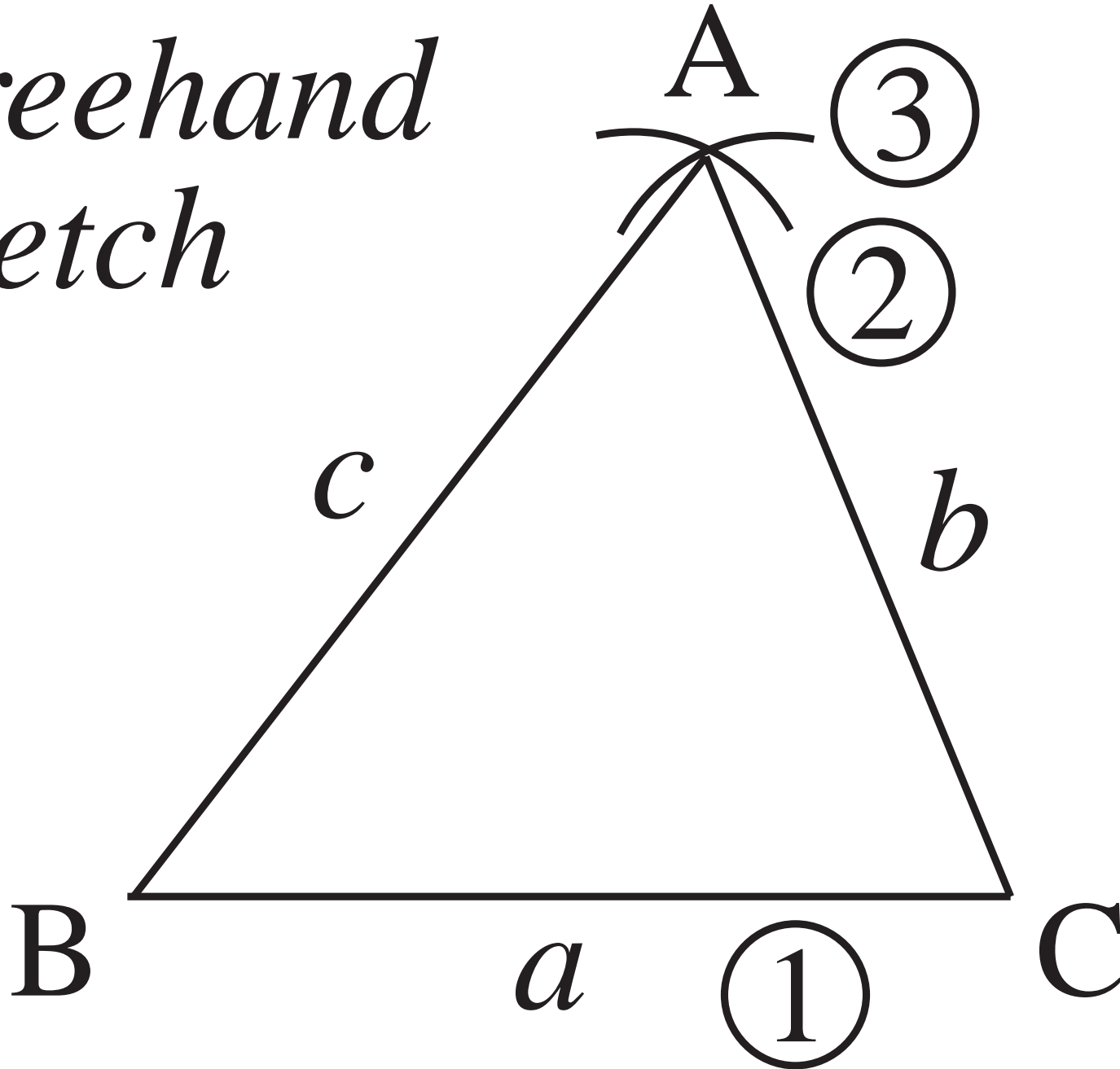




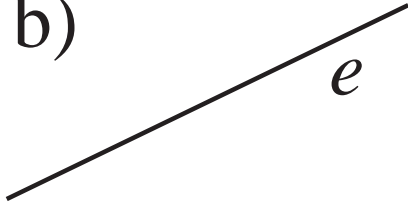
- a) The **circumference** of a circle is the set of points in a plane which are an equal distance from the
.....
- b) The of a circle is a
..... which connects the centre of the circle with a point on the circumference.
- c) A **sphere** is the set of points which are not
than a given distance from a point in space, as long as the given distance is not zero.

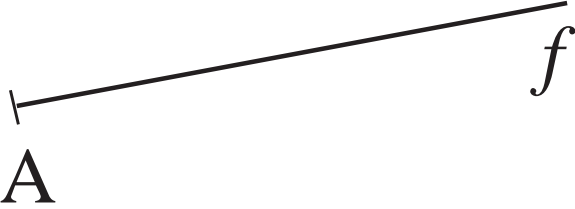


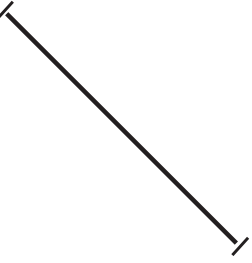
Freehand sketch

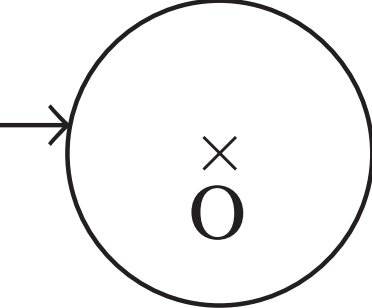


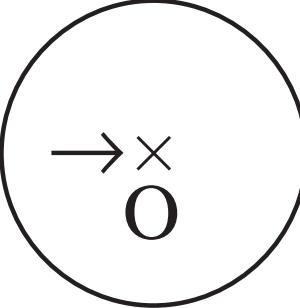
a) \times
P

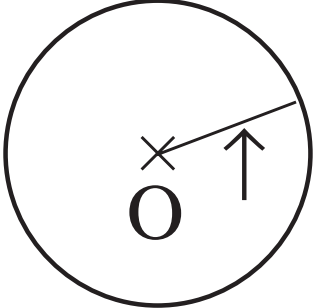
b) 

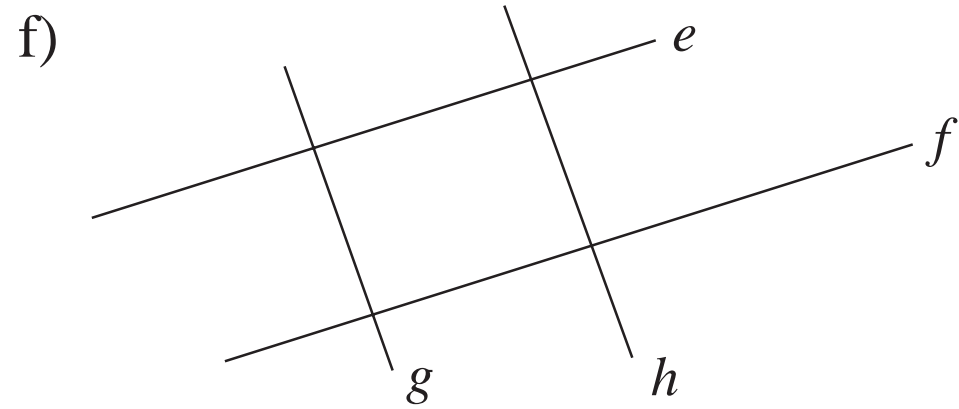
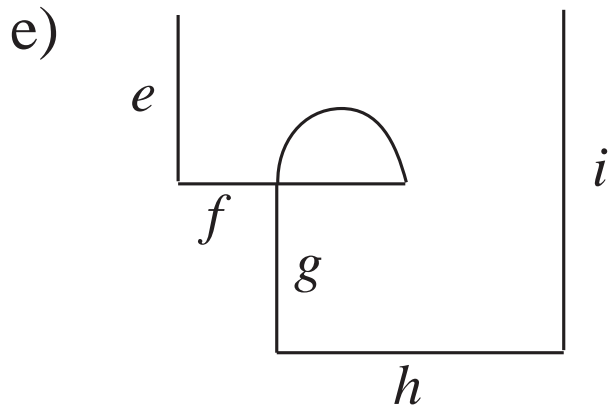
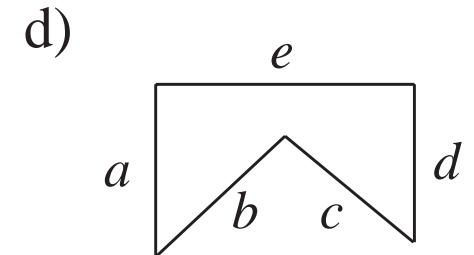
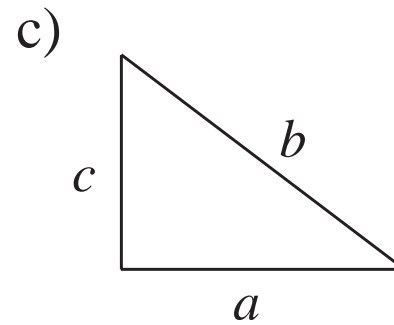
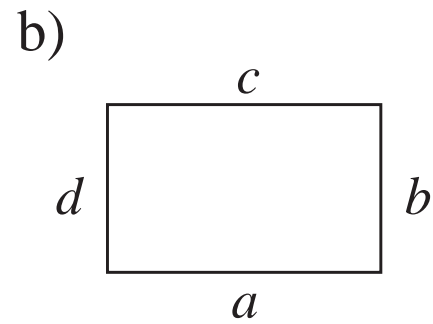
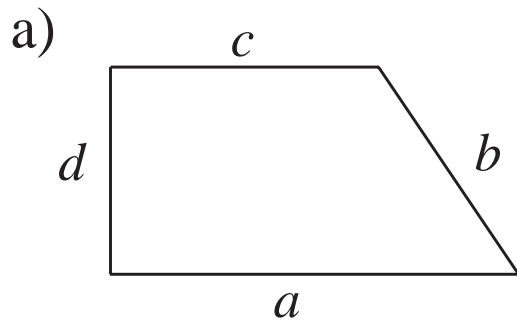
c) 

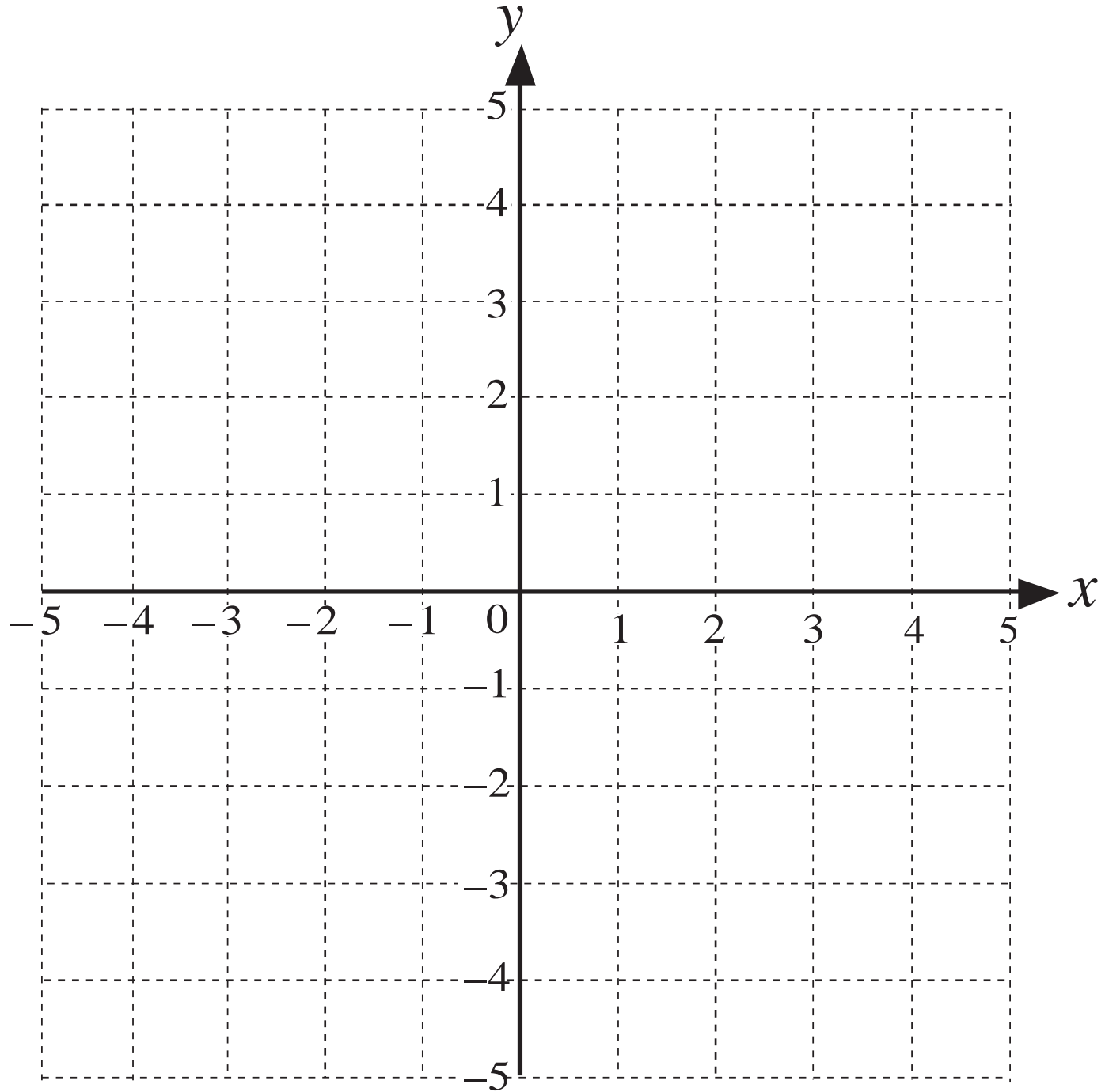
d) 
A B

e) 

f) 

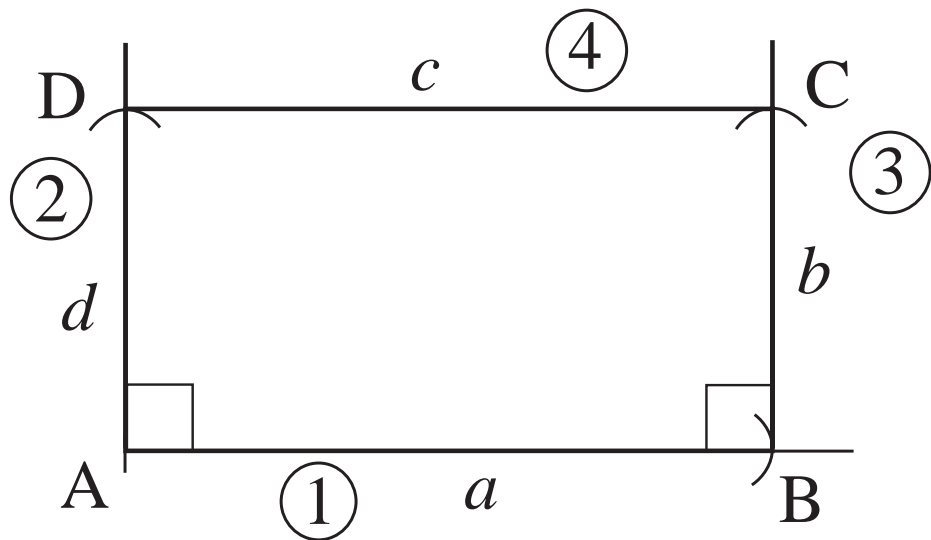
g) 



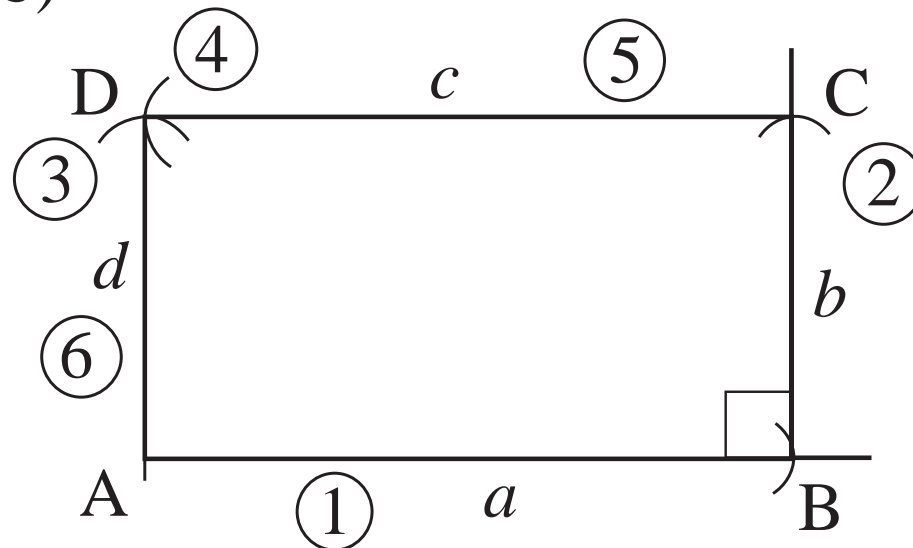




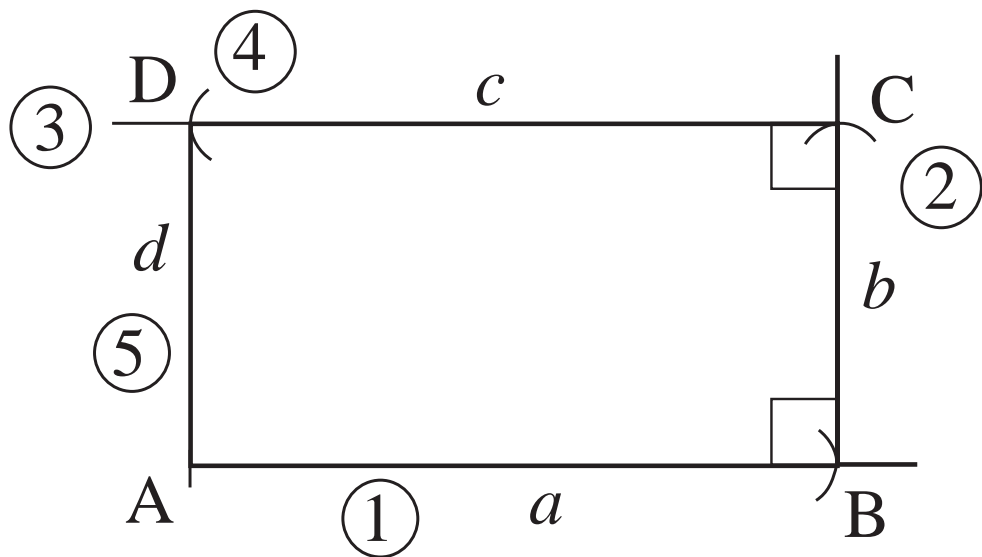
a)



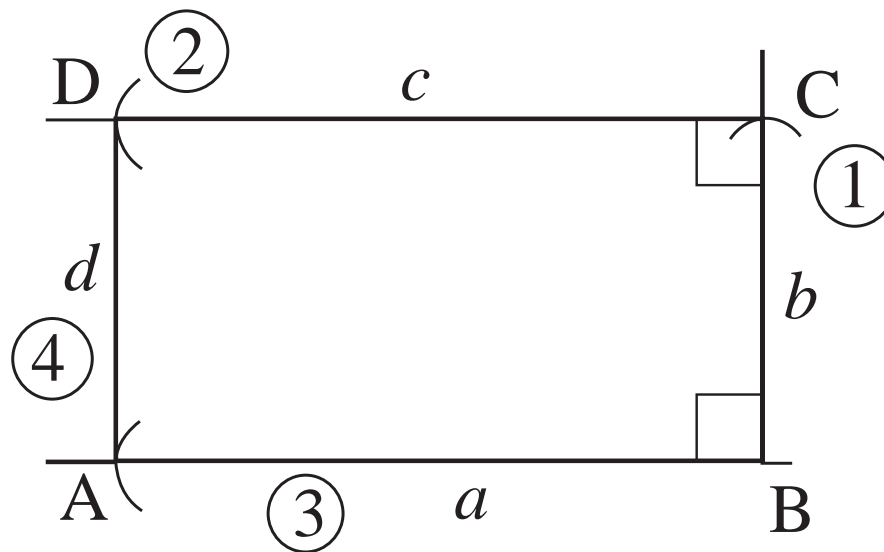
b)

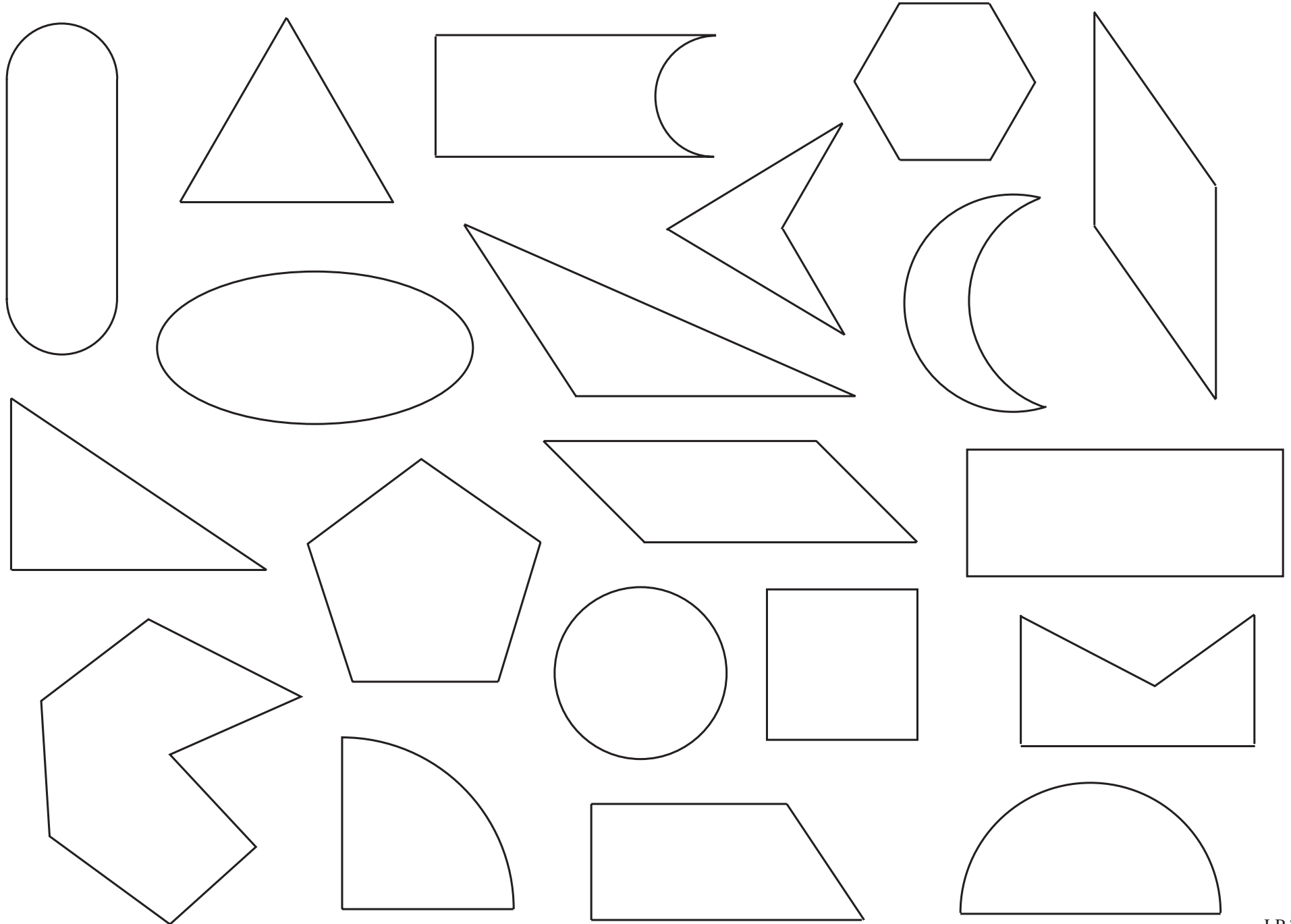


c)

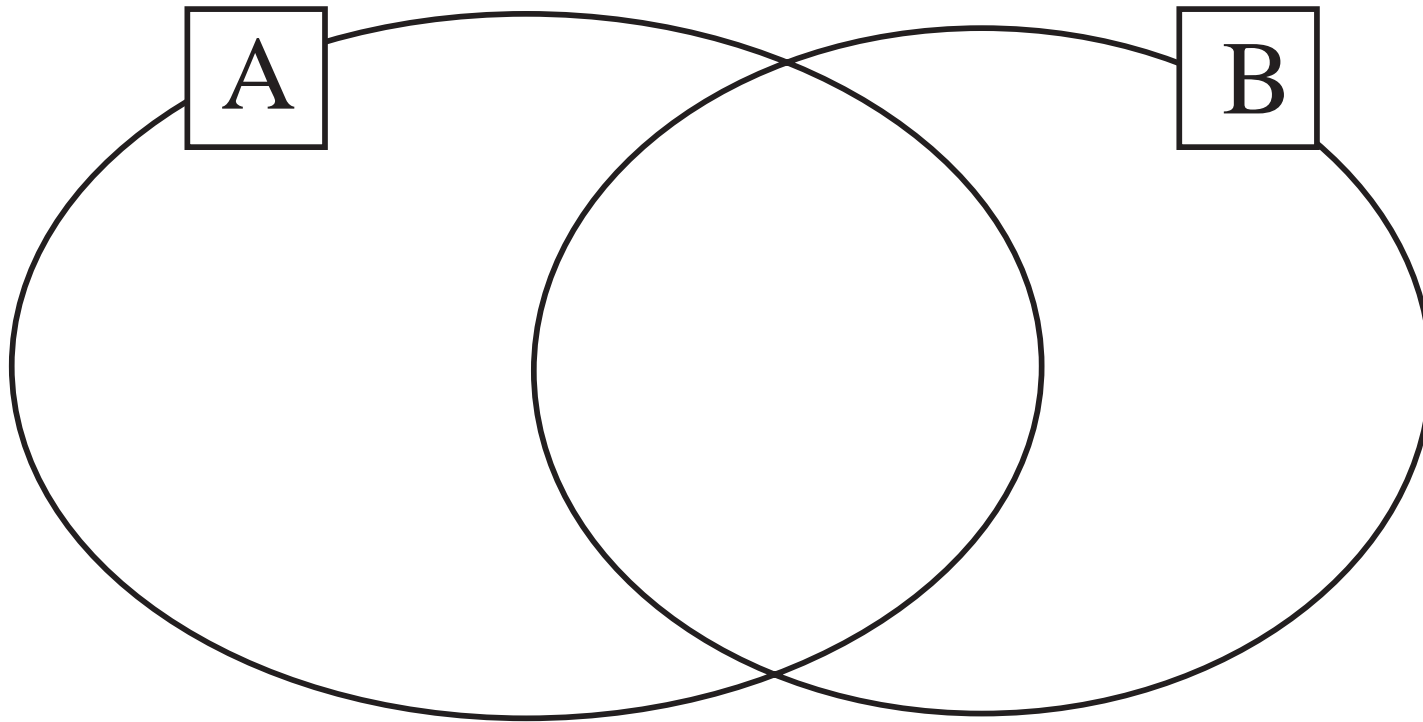


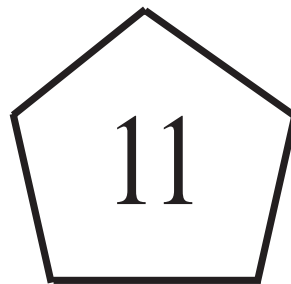
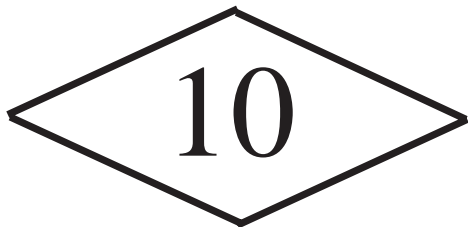
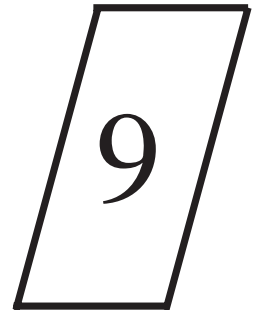
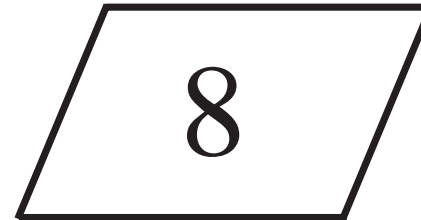
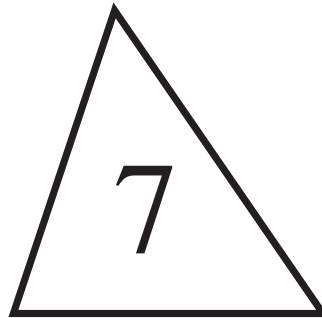
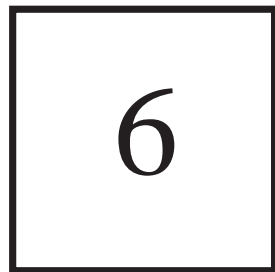
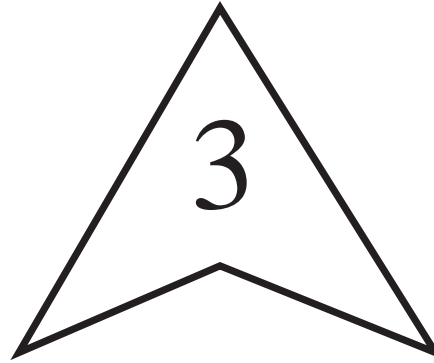
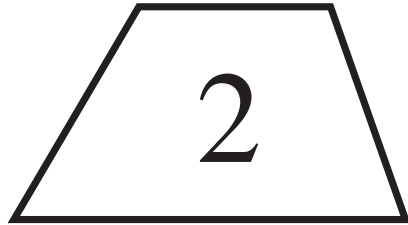
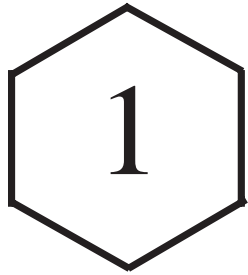
d)

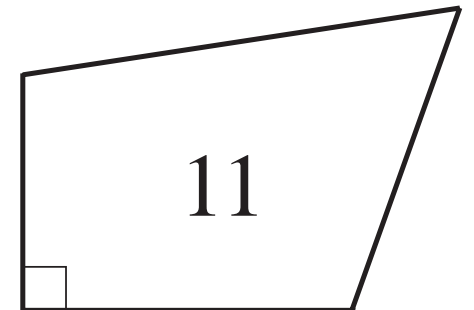
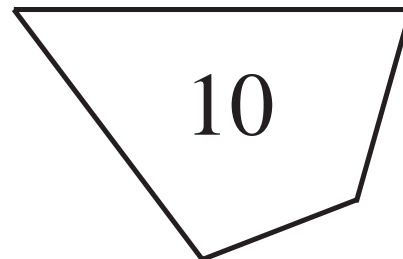
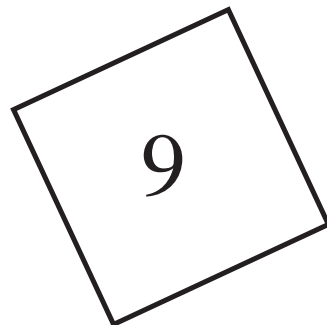
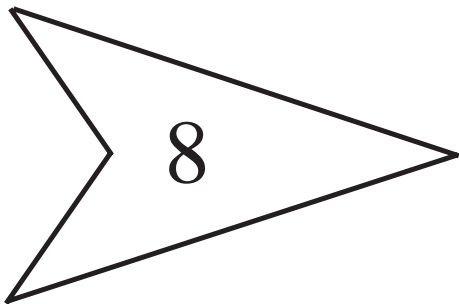
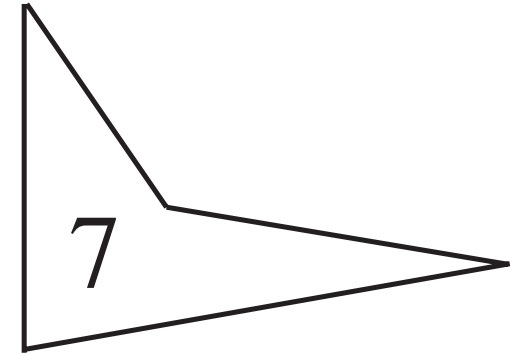
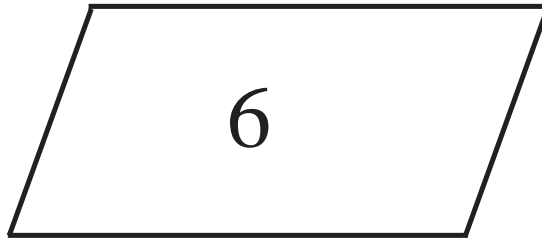
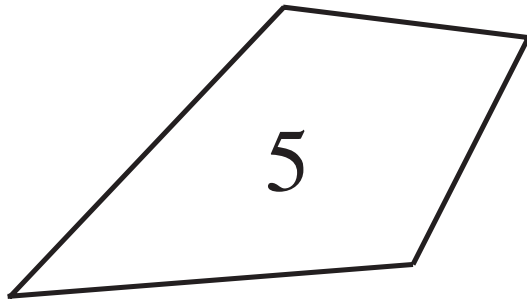
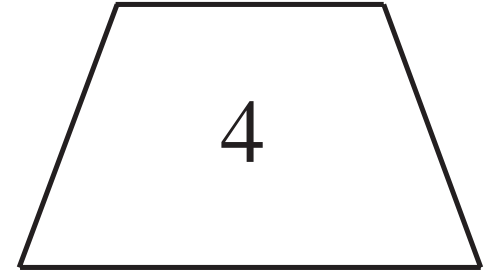
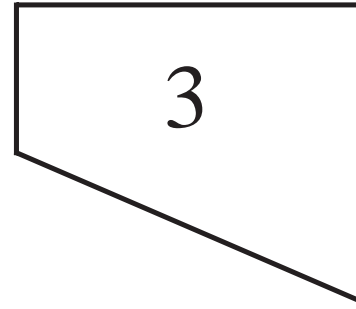
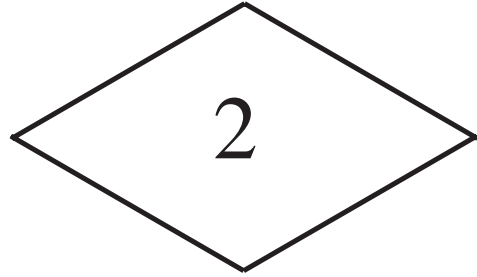
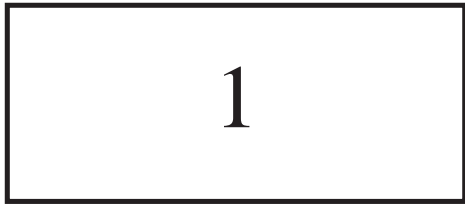


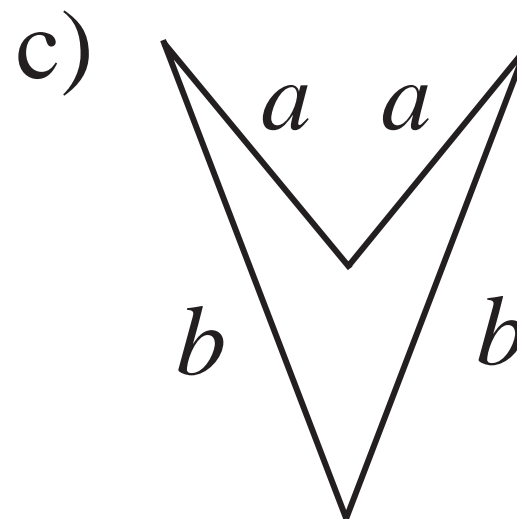
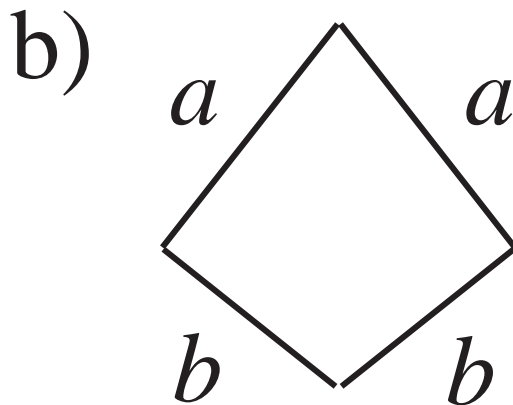
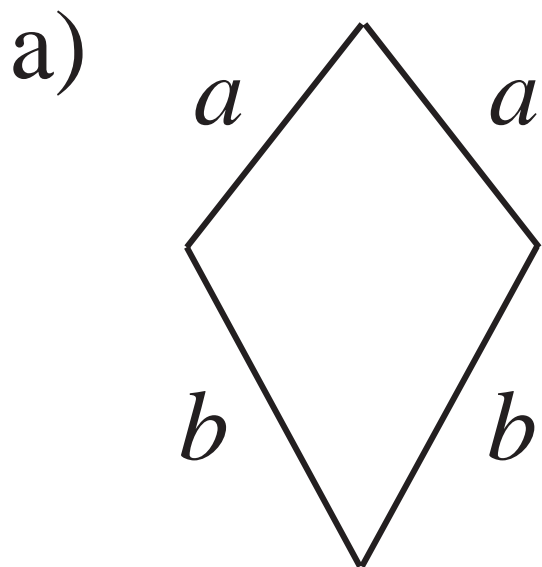


Polygons

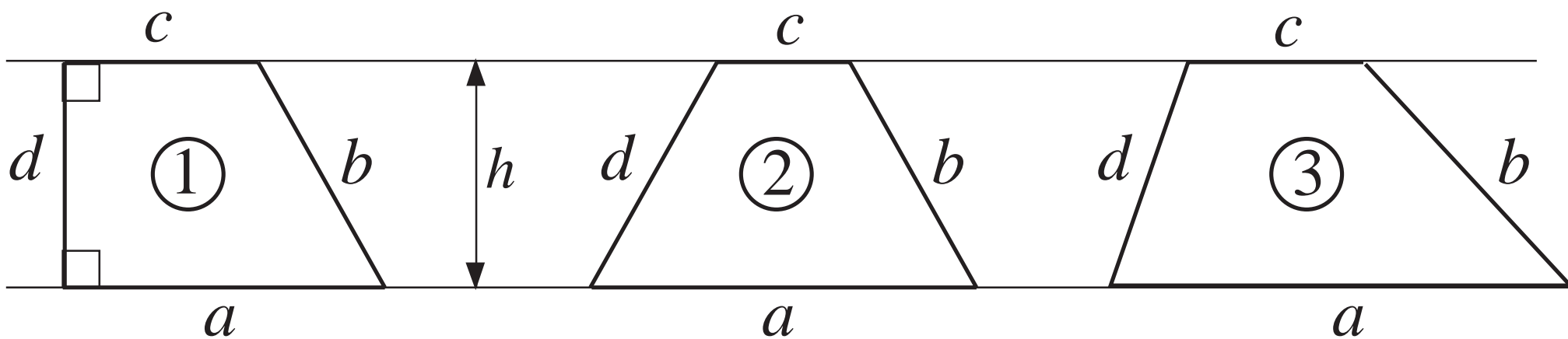




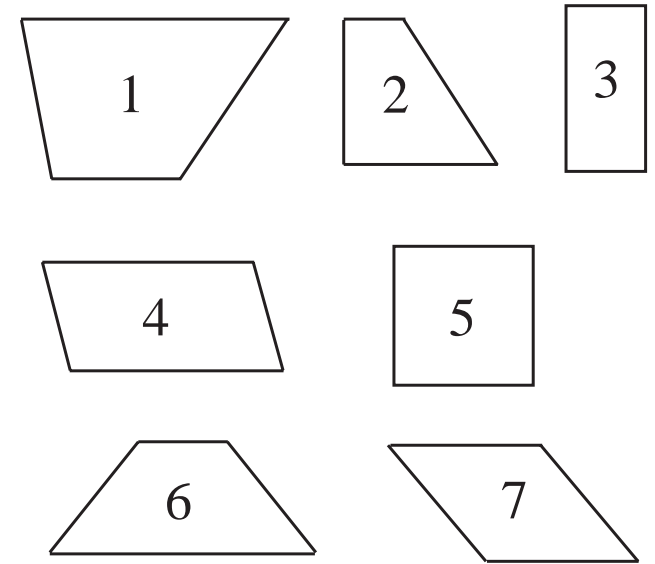
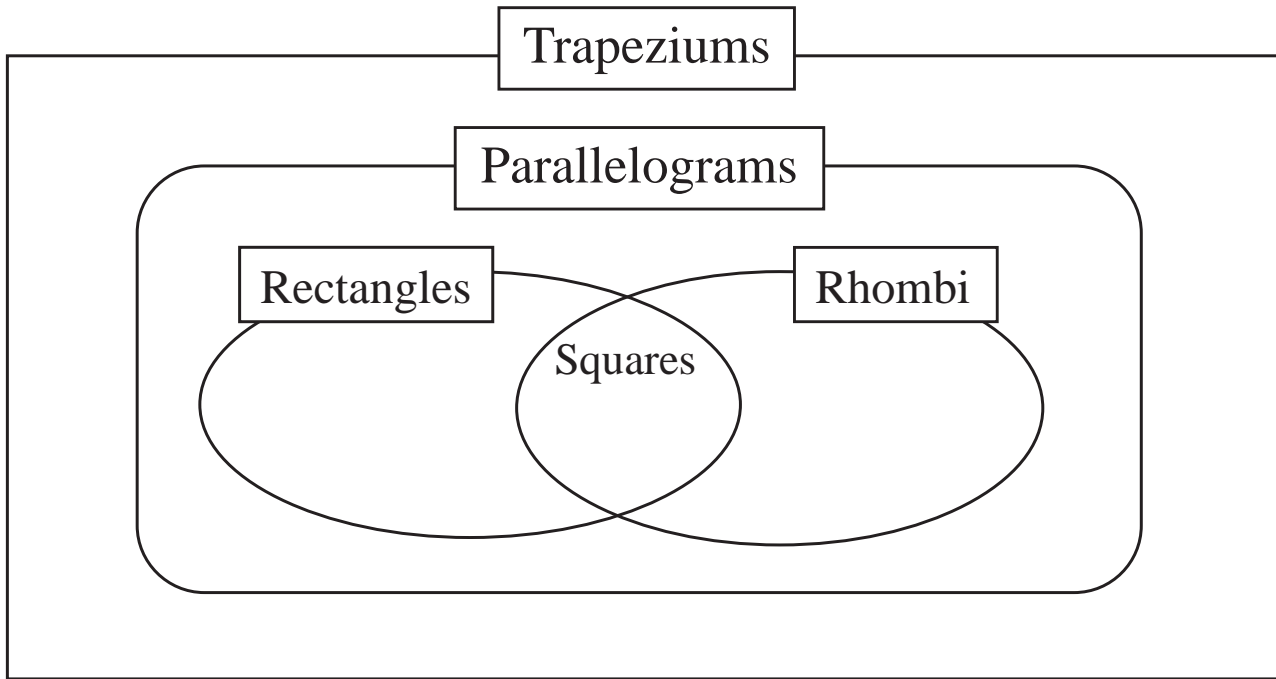




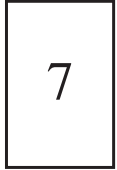
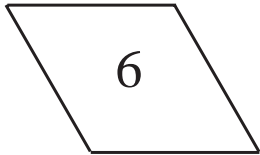
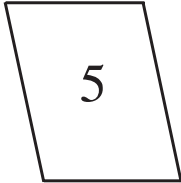
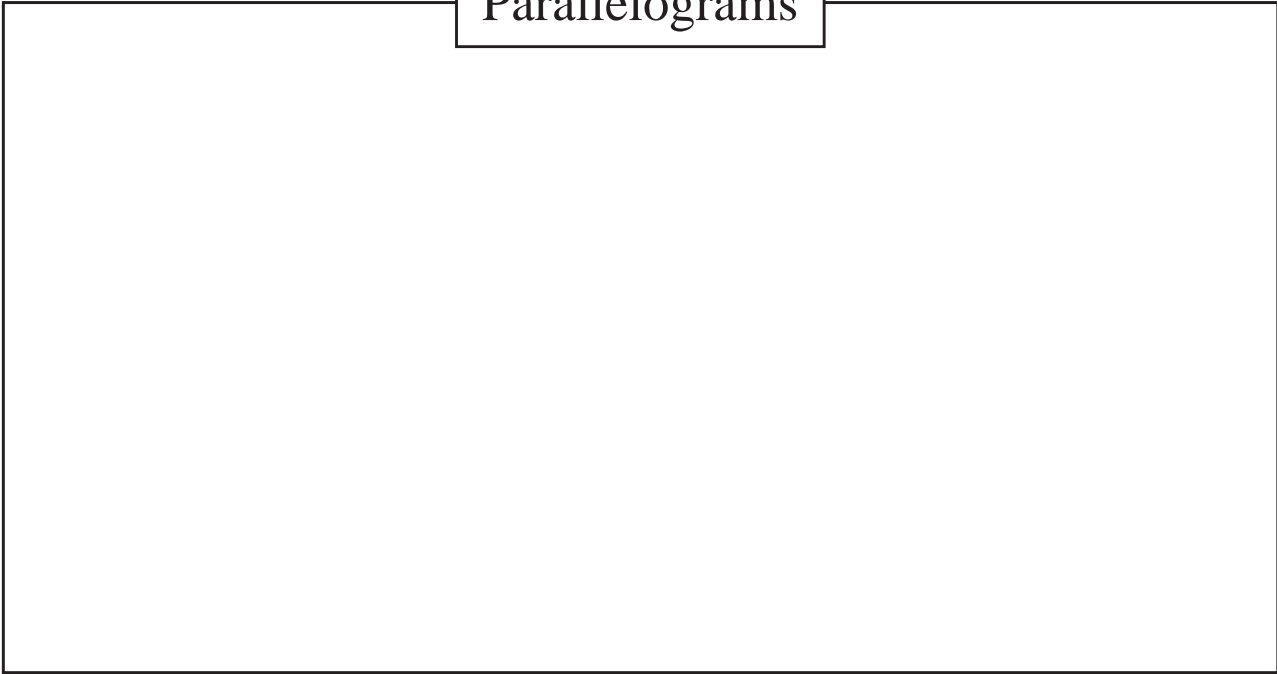
LP 76/7



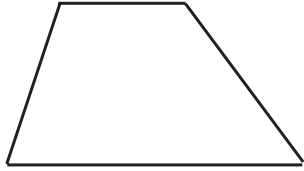
LP 77/3



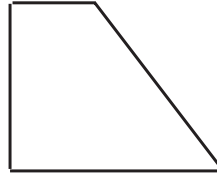
Parallelograms



i)

 $P =$

ii)

 $P =$

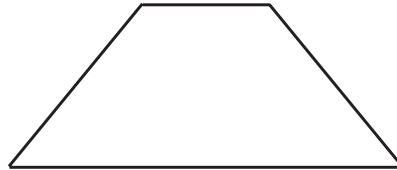
iii)

 $P =$

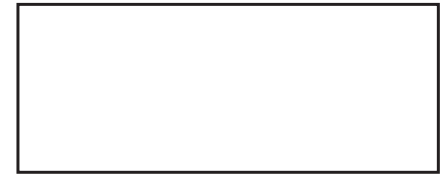
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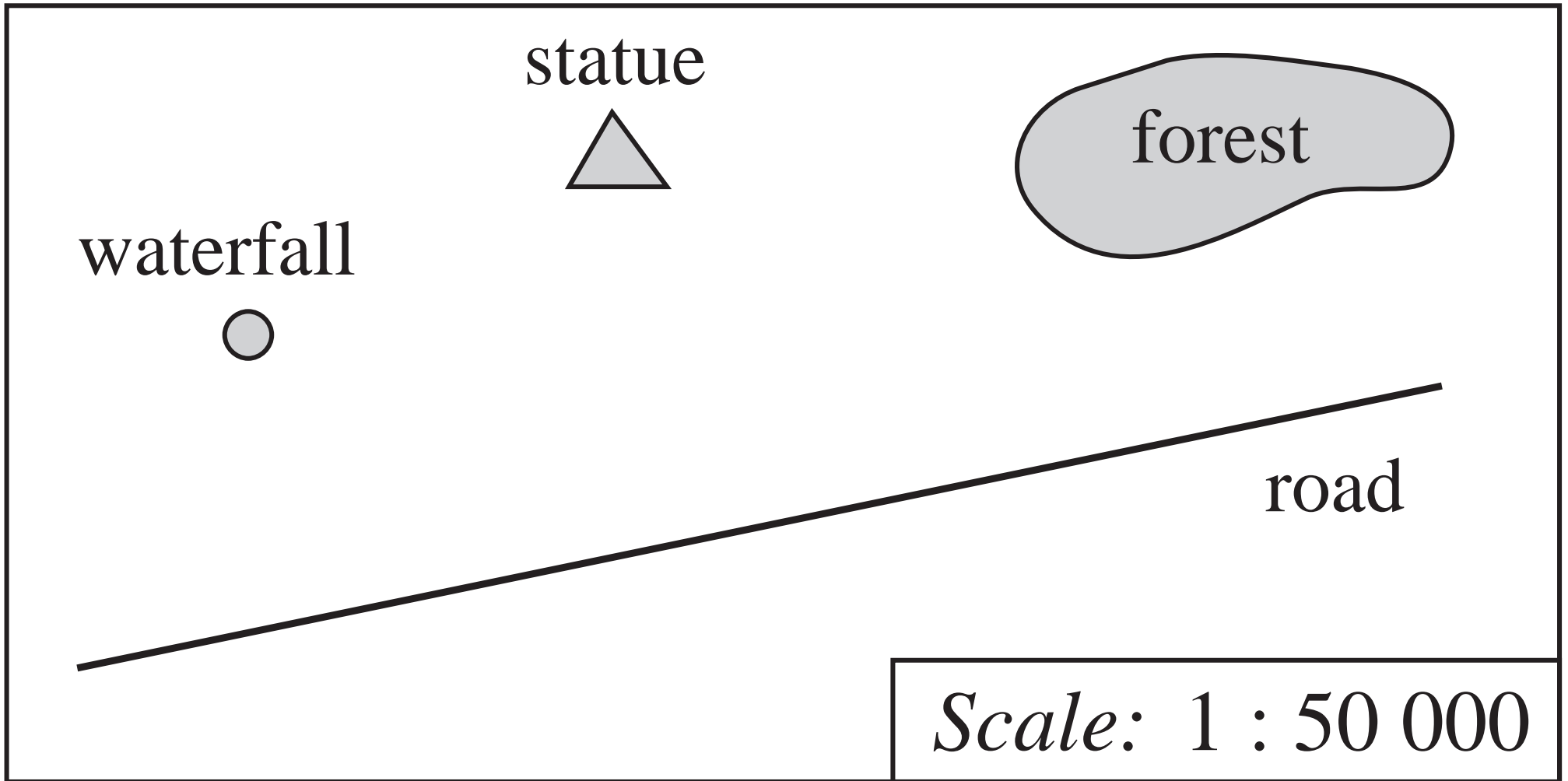
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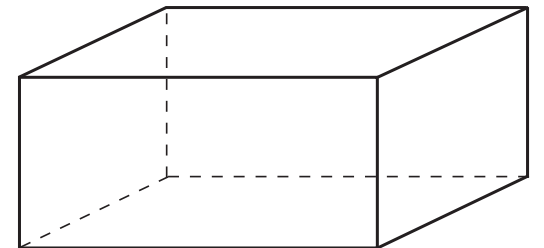
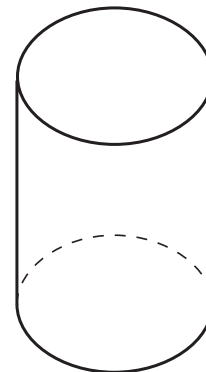
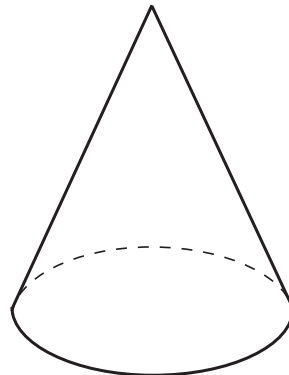
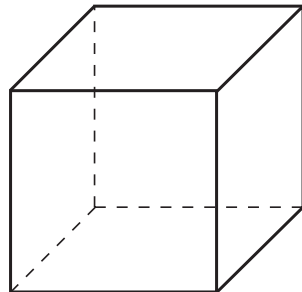
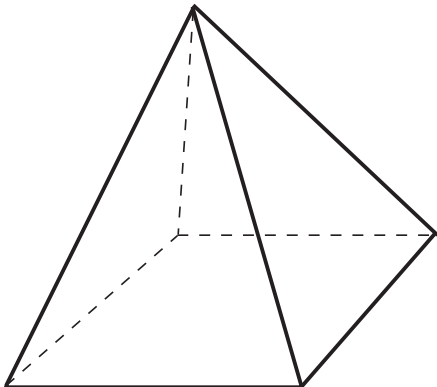
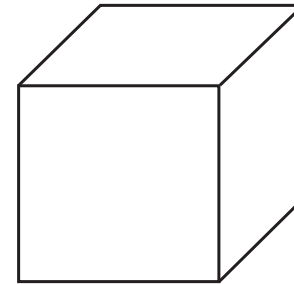
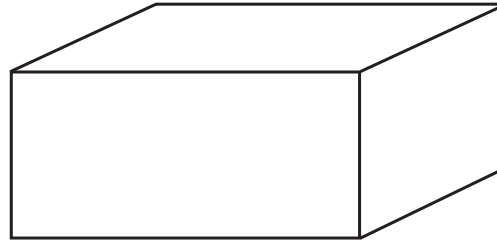
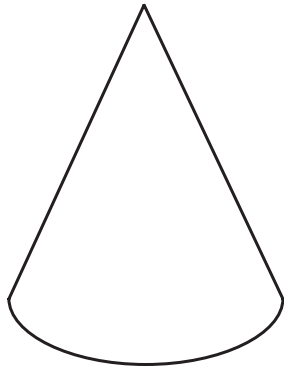
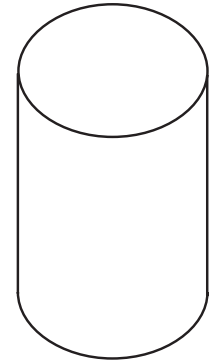
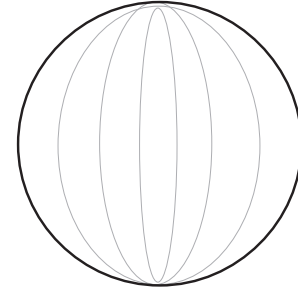
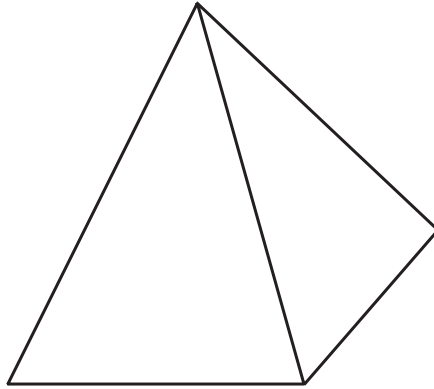
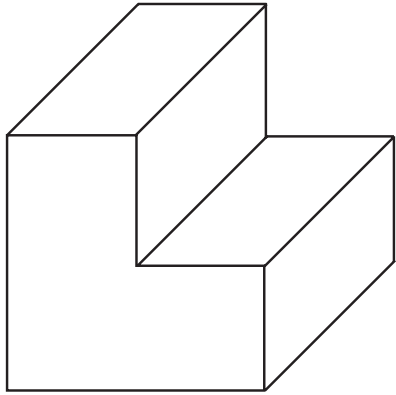
v)

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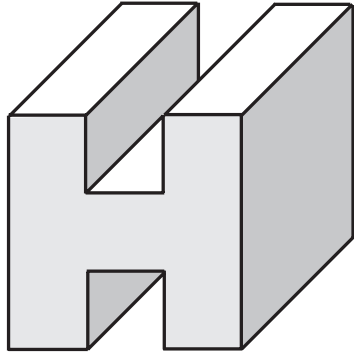
vi)

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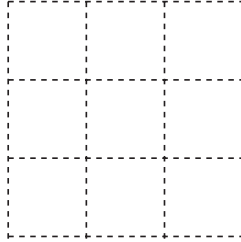




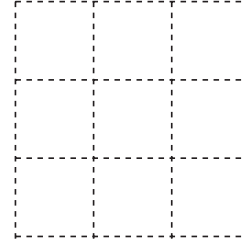
a)



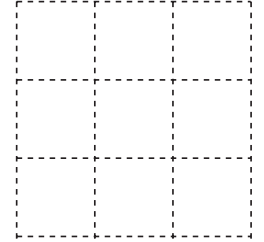
Front view



Side view

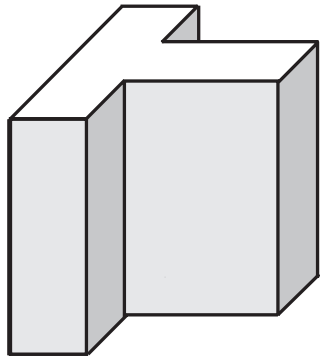


Top view

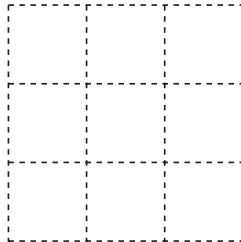


Volume =

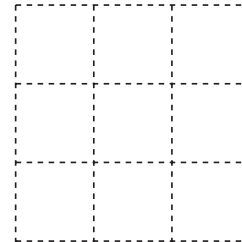
b)



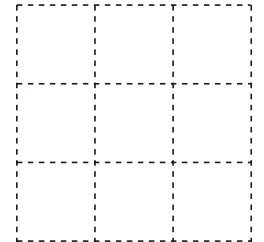
Front view



Side view

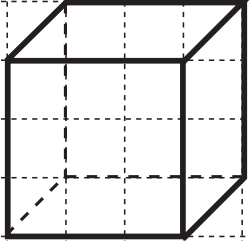


Top view

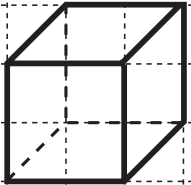


Volume =

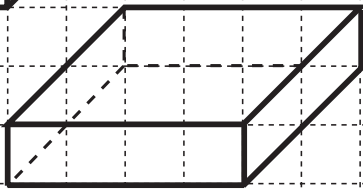
a)



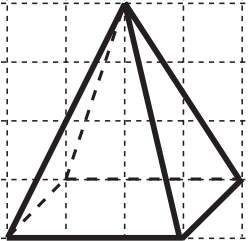
b)



c)



d)



Name:

$$v = \square \quad e = \square \quad f = \square$$

Name:

$$v = \square \quad e = \square \quad f = \square$$

Name:

$$v = \square \quad e = \square \quad f = \square$$

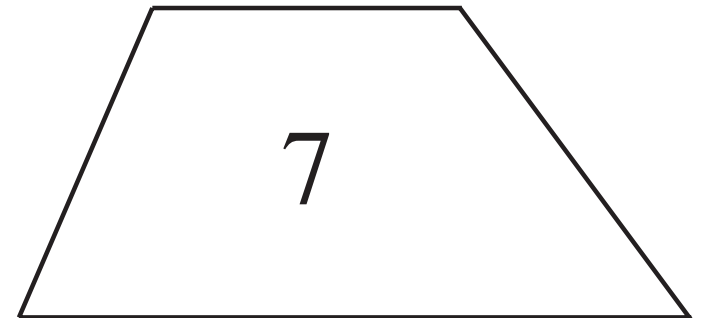
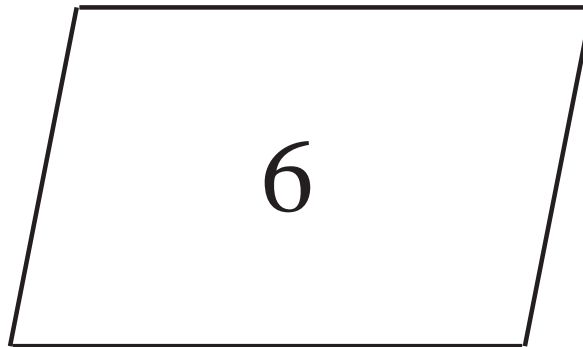
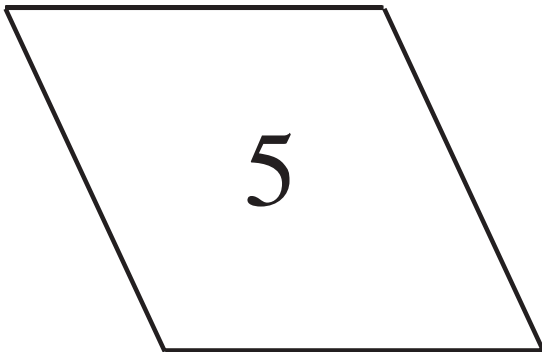
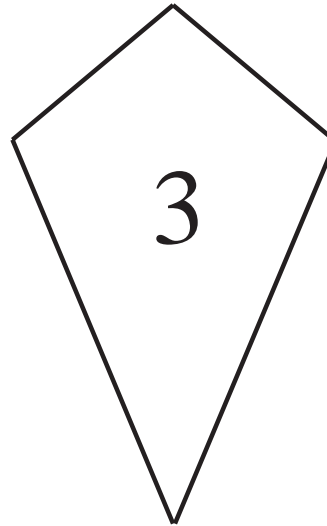
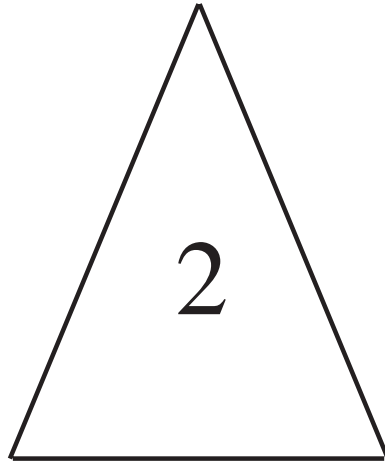
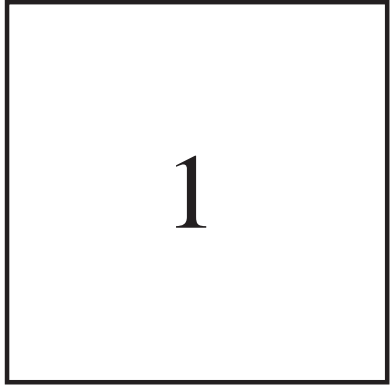
Name:

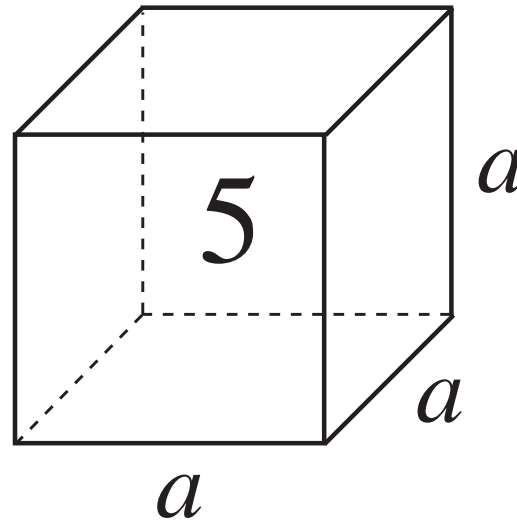
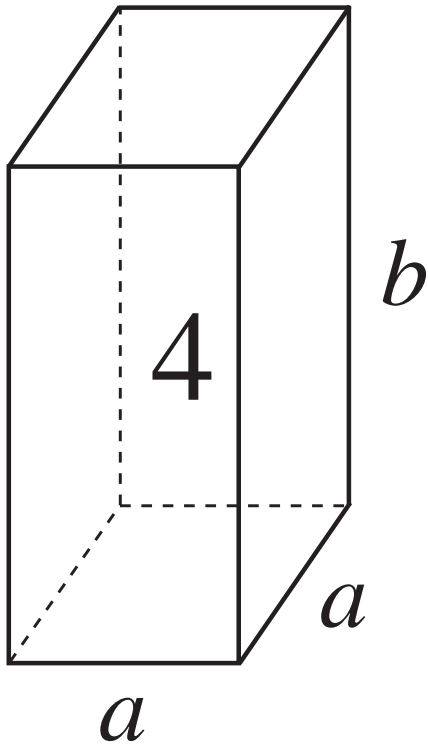
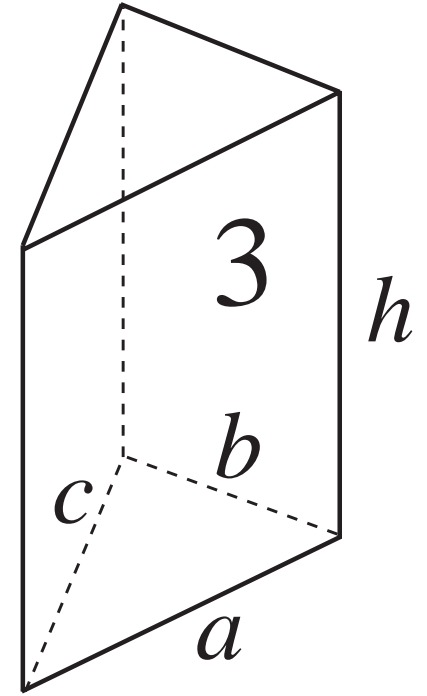
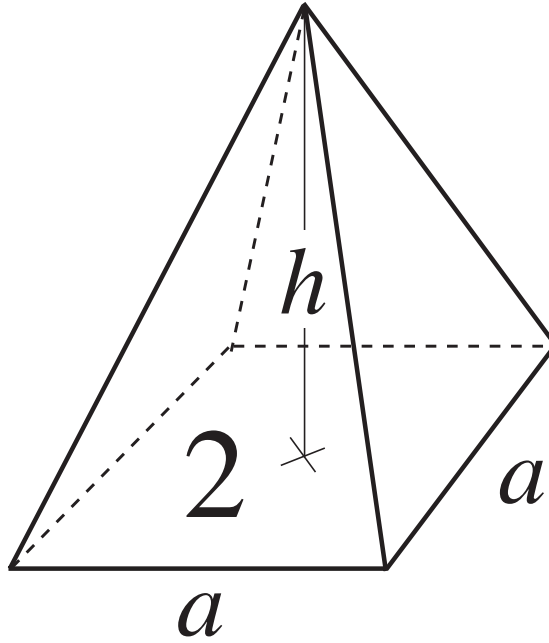
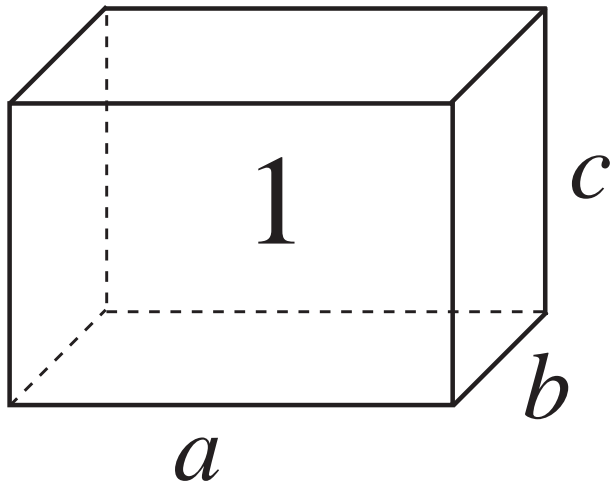
$$v = \square \quad e = \square \quad f = \square$$

A

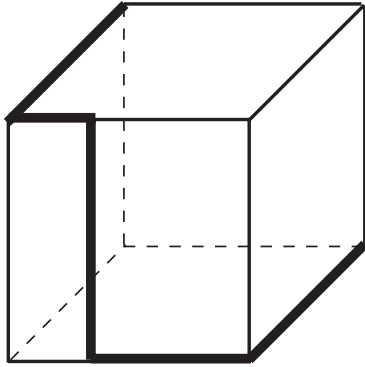
B

C

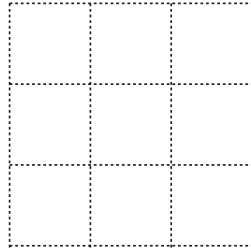




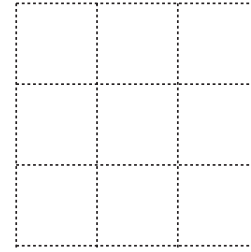
a)



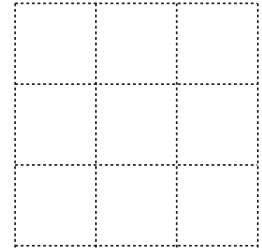
Front view



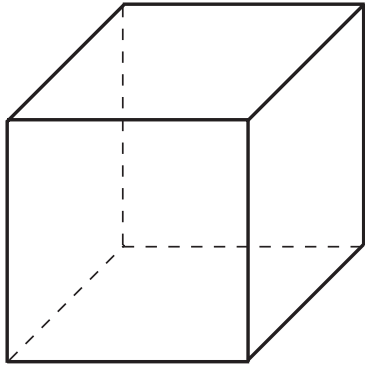
Side view



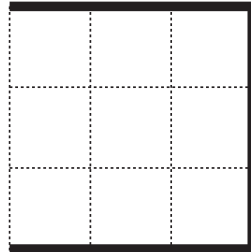
Top view



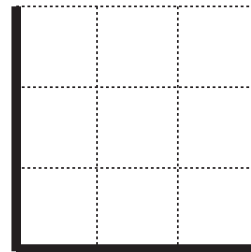
b)



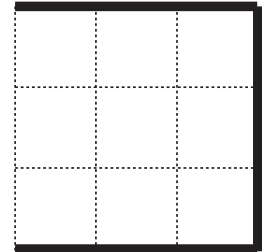
Front view



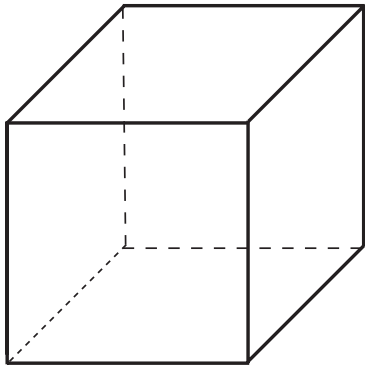
Side view



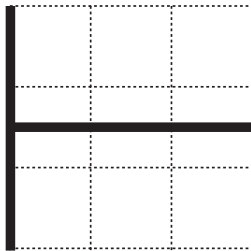
Top view



c)



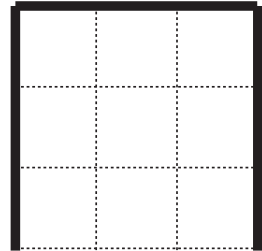
Front view



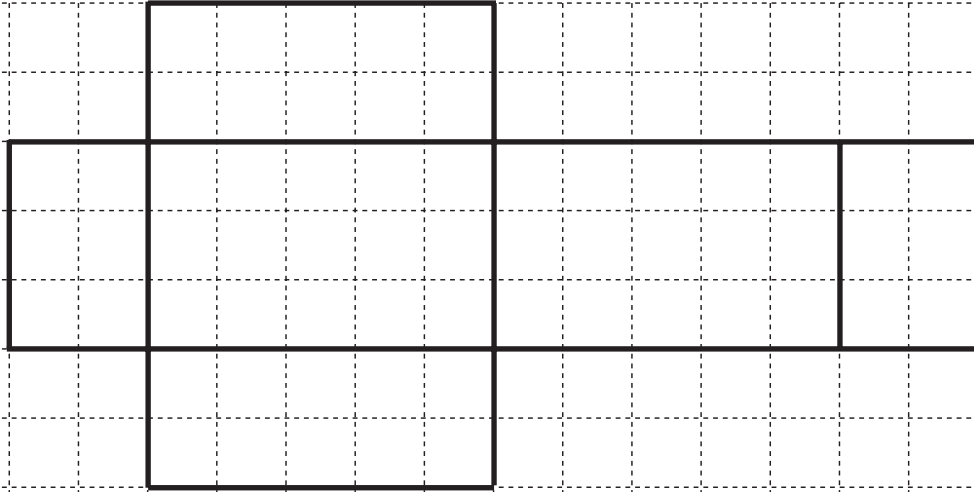
Side view



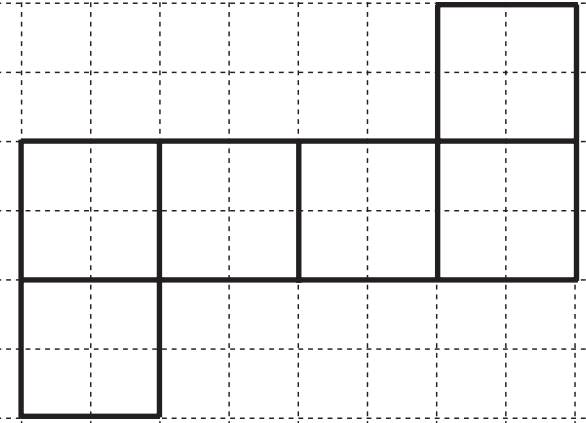
Top view



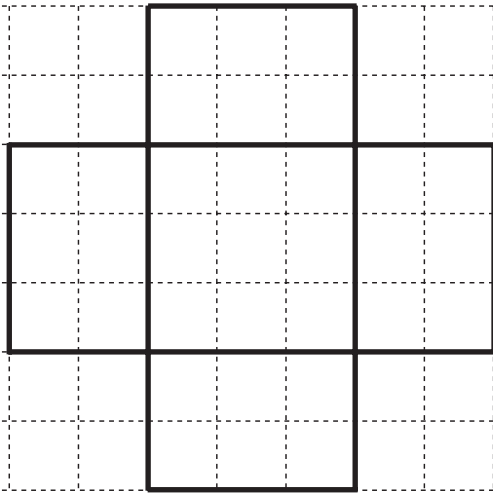
a)



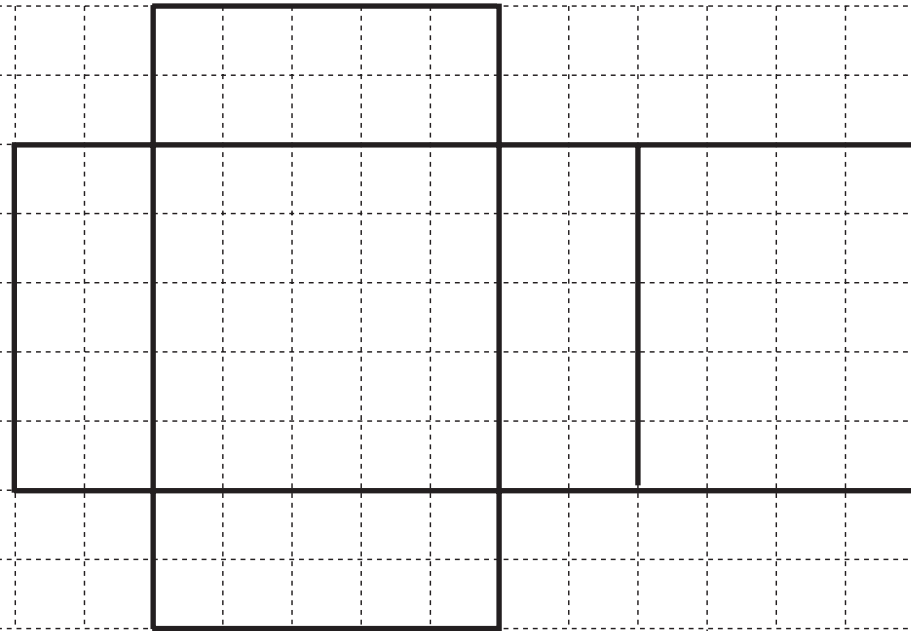
b)



c)



d)



The grid contains the following polyomino shapes:

- a) A horizontal row of 6 squares.
- b) A 3x2 rectangle.
- c) A horizontal row of 4 squares with one square attached to the top of the rightmost square.
- d) A horizontal row of 4 squares with two squares attached to the top of the second and third squares.
- e) A vertical column of 4 squares with two squares attached to the left of the bottom two squares.
- f) A central square with four squares attached to its top, bottom, left, and right sides.
- g) A vertical column of 4 squares with one square attached to the left of the second square from the top.
- h) A horizontal row of 3 squares with one square attached to the top of the rightmost square and one square attached to the left of the middle square.
- i) A horizontal row of 3 squares with one square attached to the top of the rightmost square and one square attached to the left of the middle square.
- j) A horizontal row of 3 squares with one square attached to the top of the rightmost square and one square attached to the left of the middle square.
- k) A 3x2 rectangle.

	Number possible	
(6)	a)	1
(5, 1)		3
(4, 2)	d)	5
(4, 1, 1)	c)	8
(3, 3)	b)	3
(3, 2, 1)	h)	13