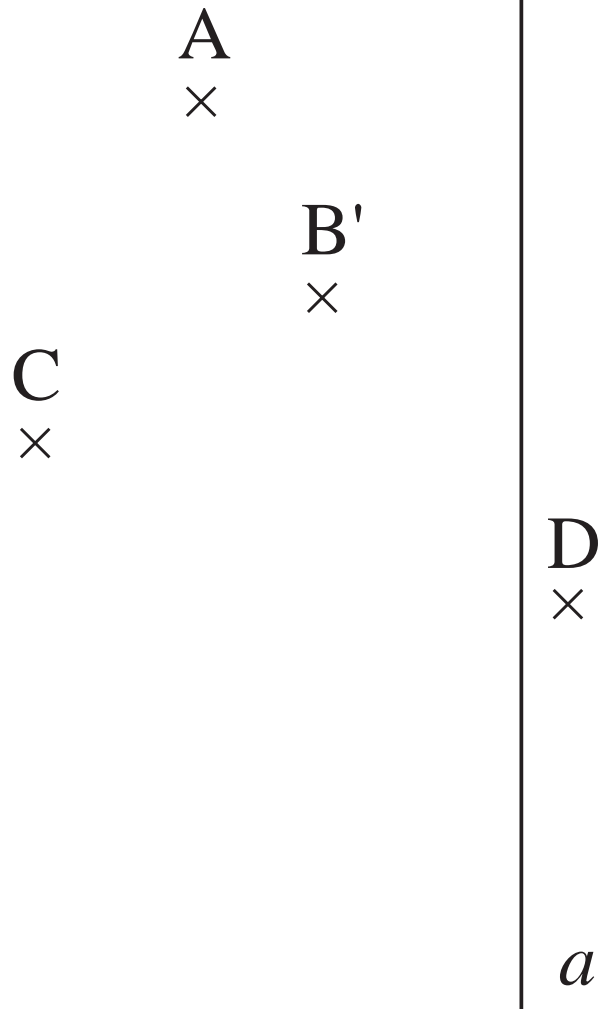
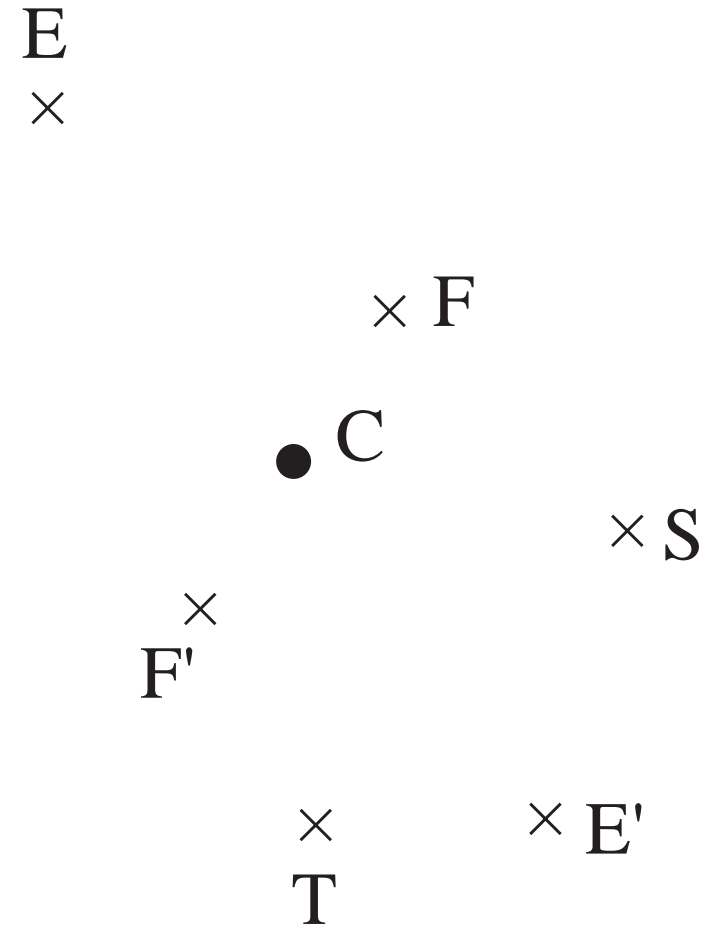


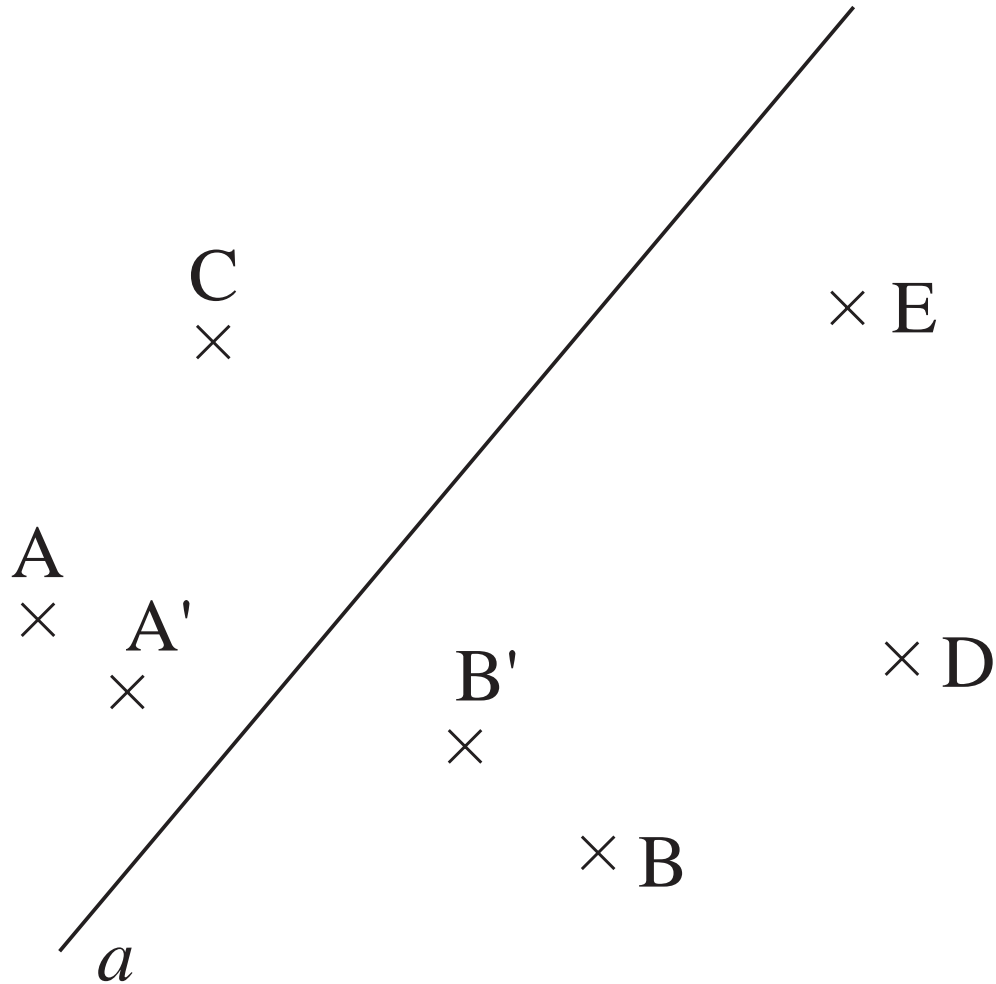
a)



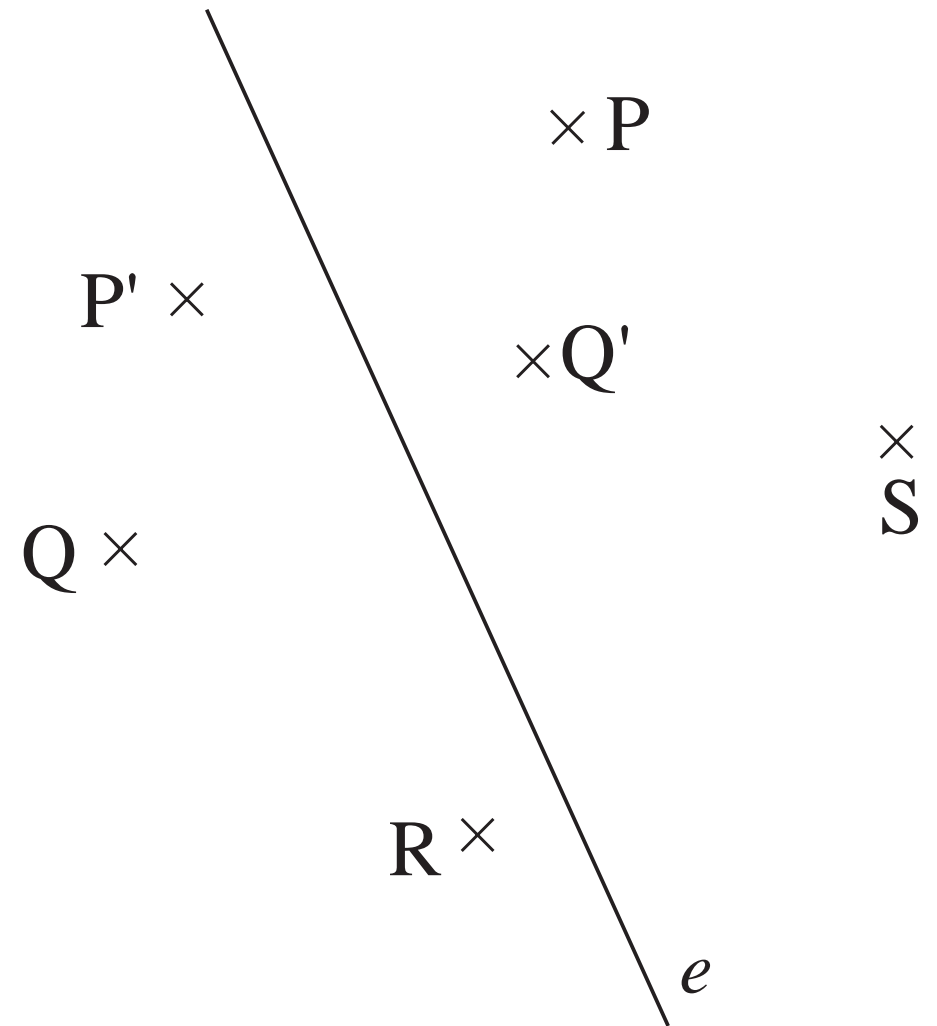
b)



c)



d)





e)

$\times P'$

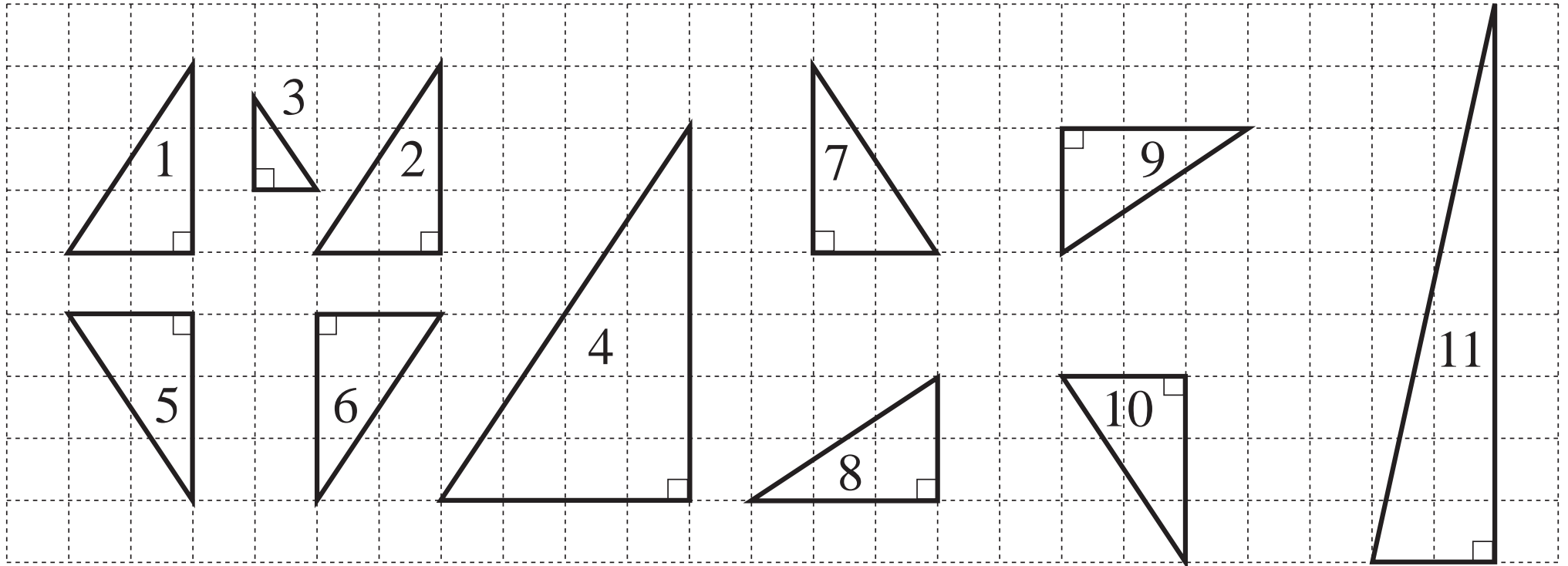
$P \times$

$\times Q'$

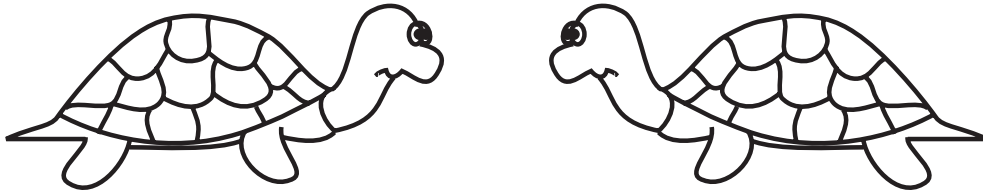
$Q \times$

$R \times$

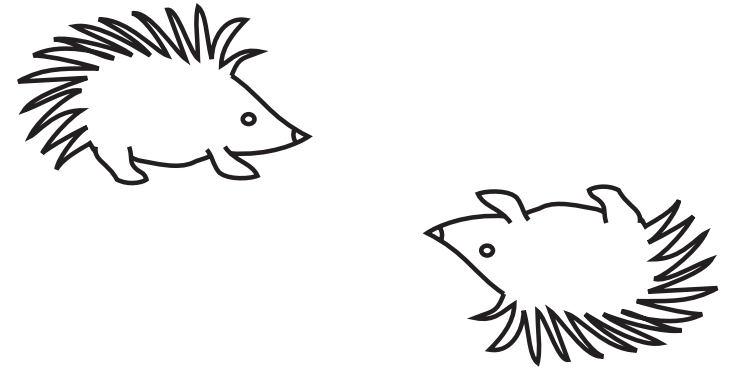
$S \times$



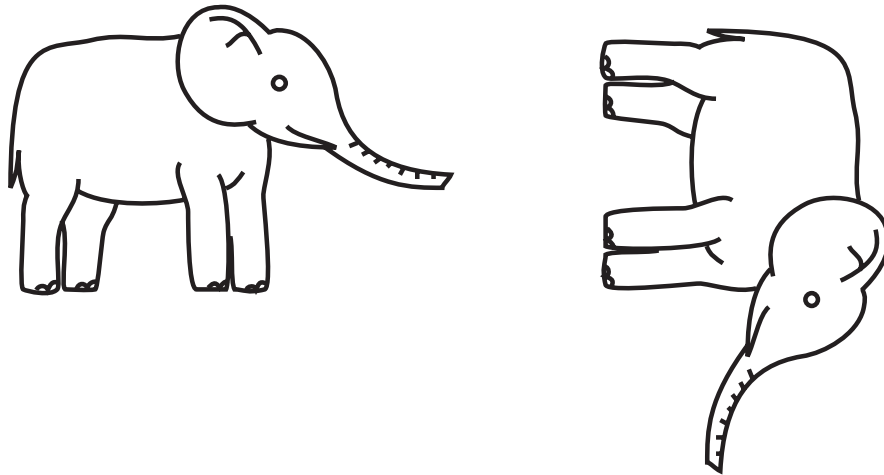
a)



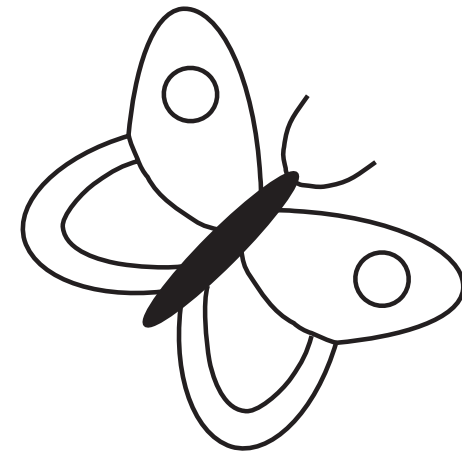
b)



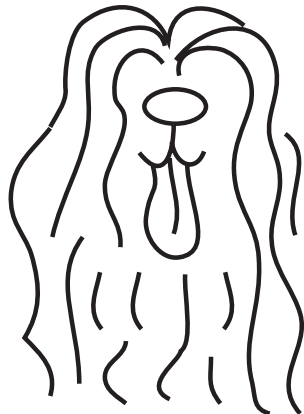
c)



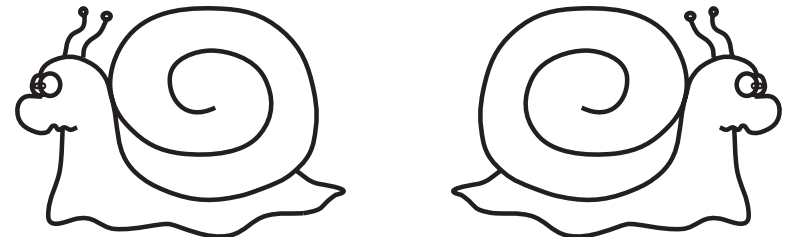
d)

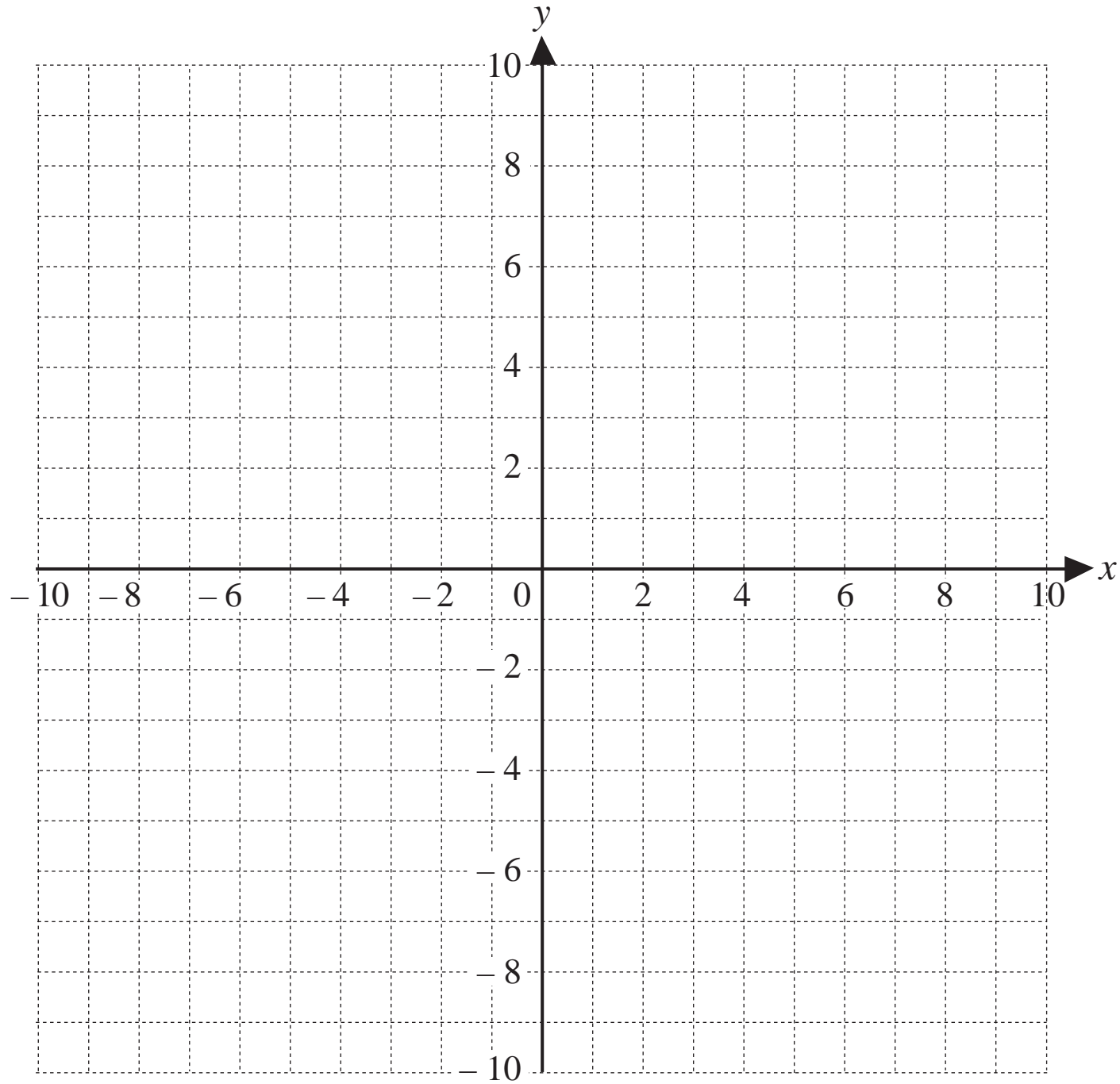


e)

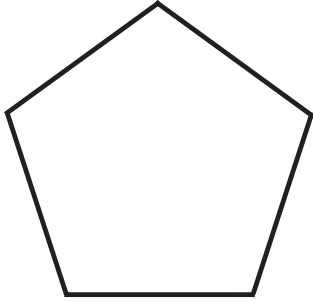


f)





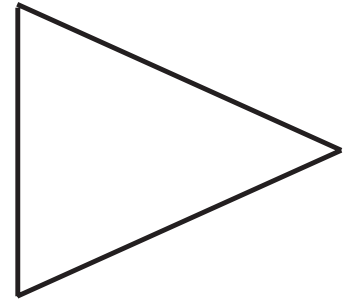
a)



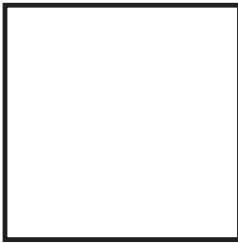
b)



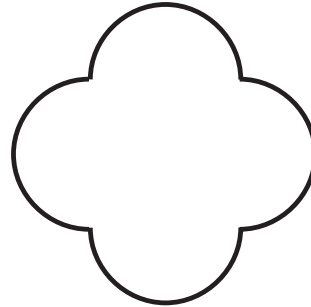
c)



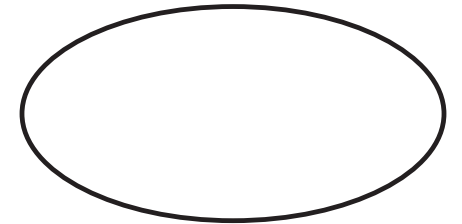
d)



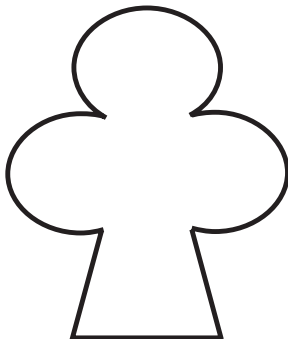
e)



f)



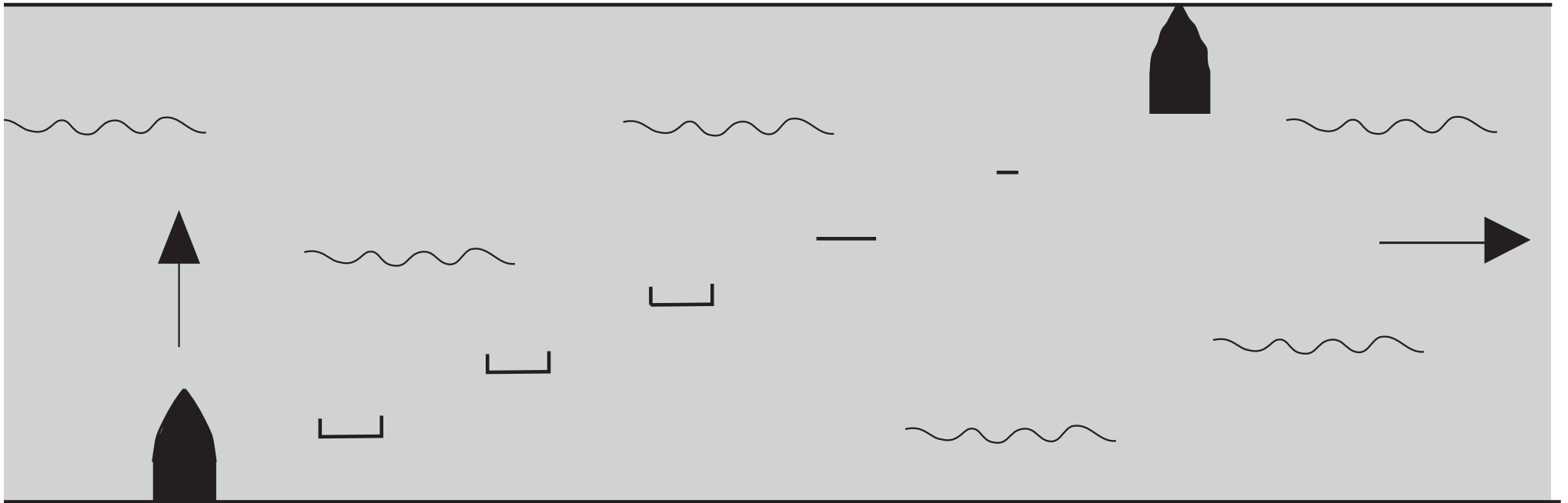
g)



h)

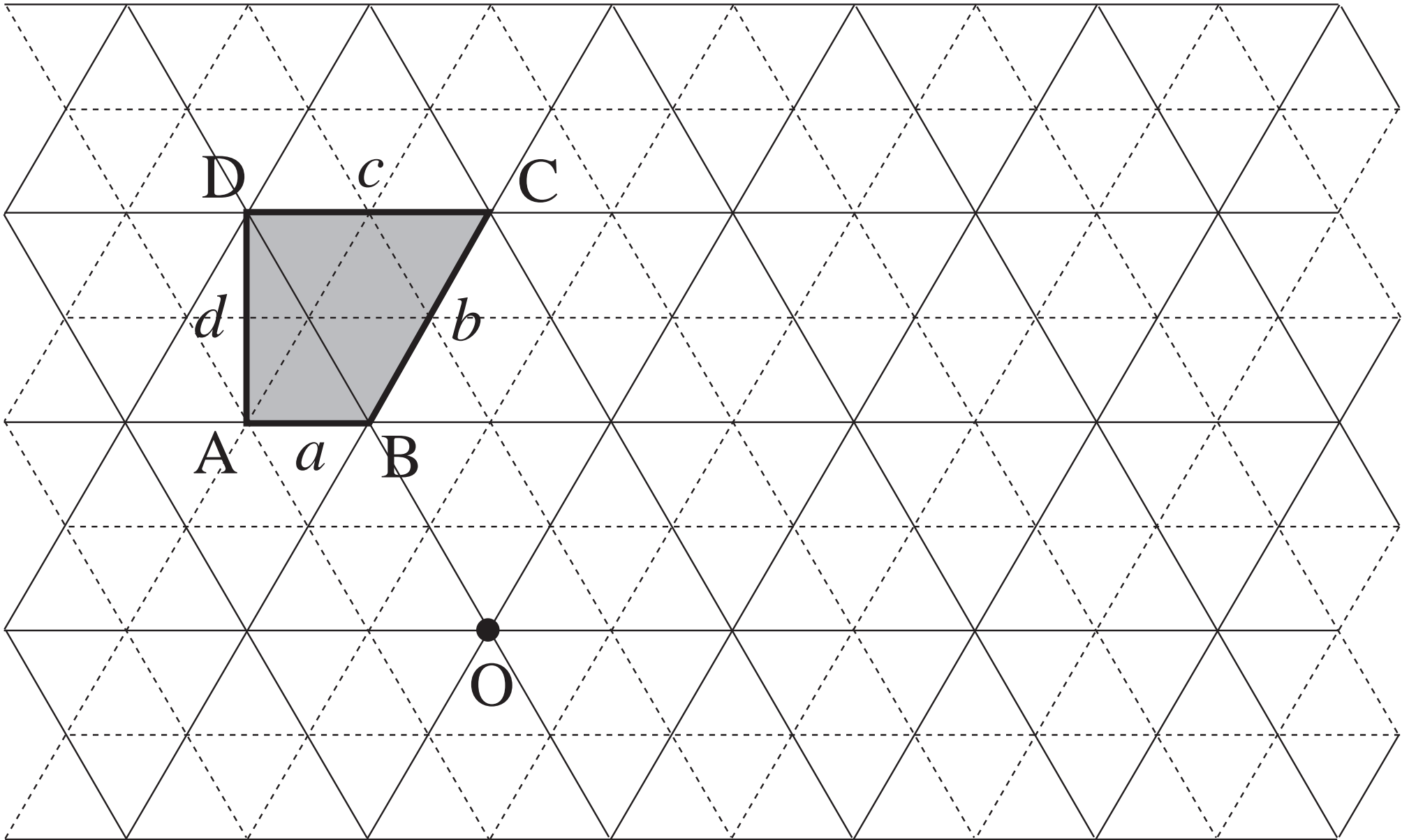


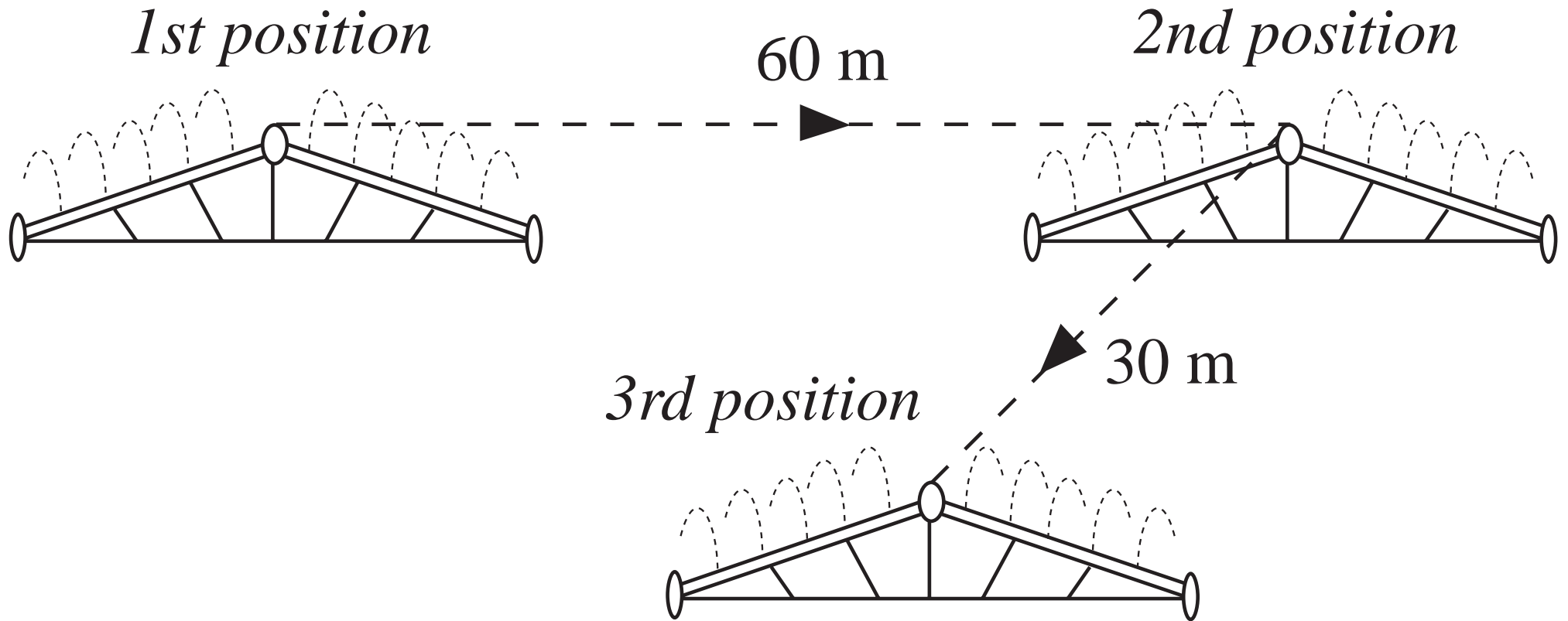
Finish

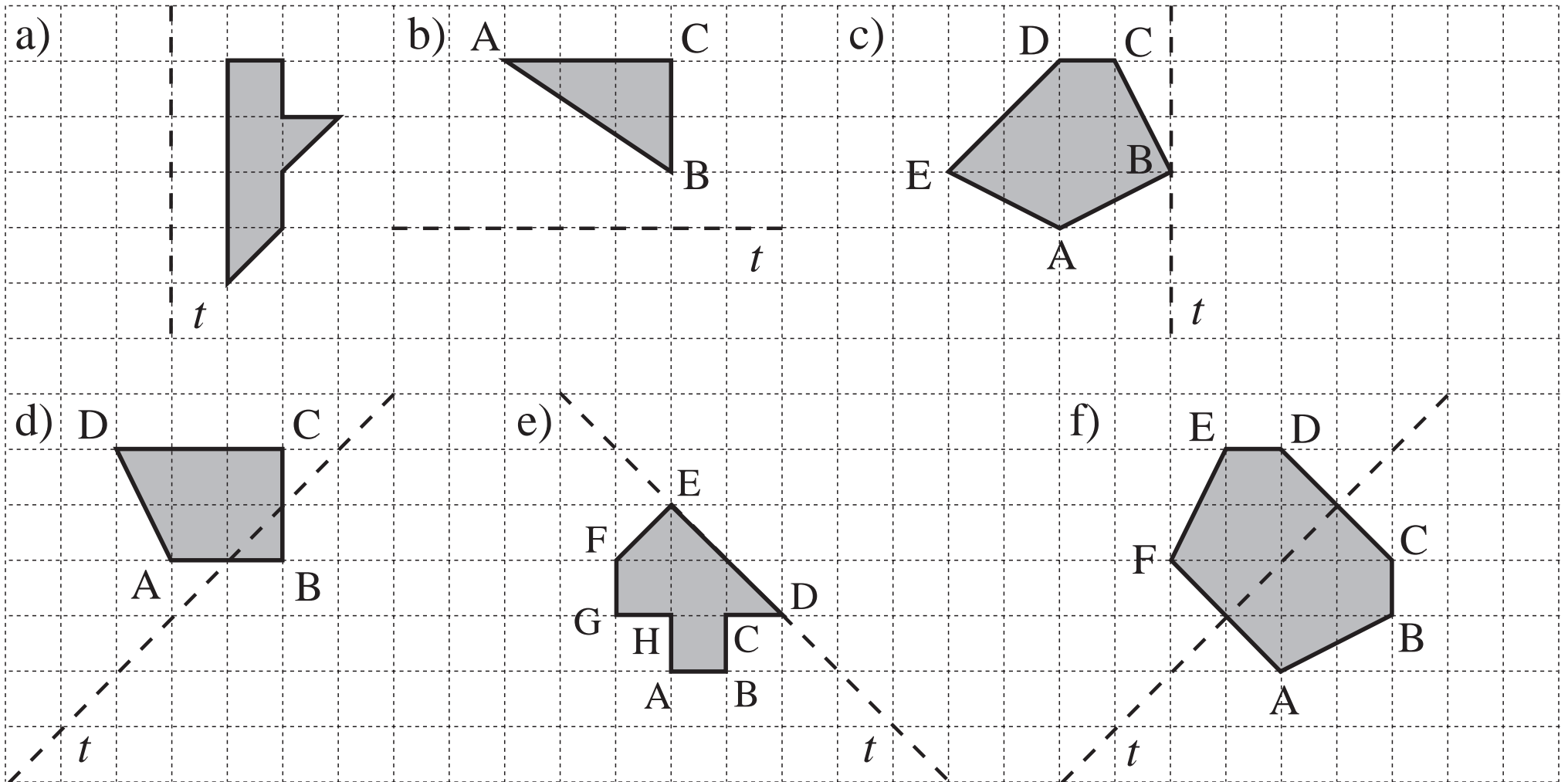


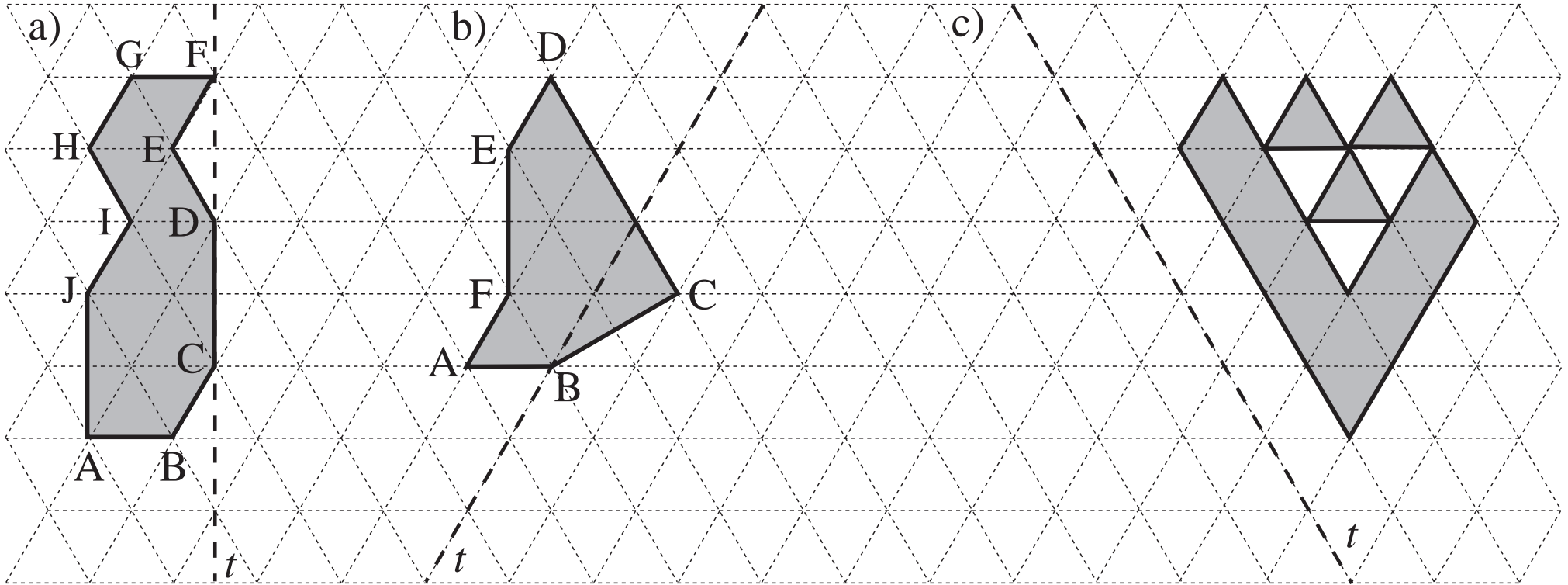
Start



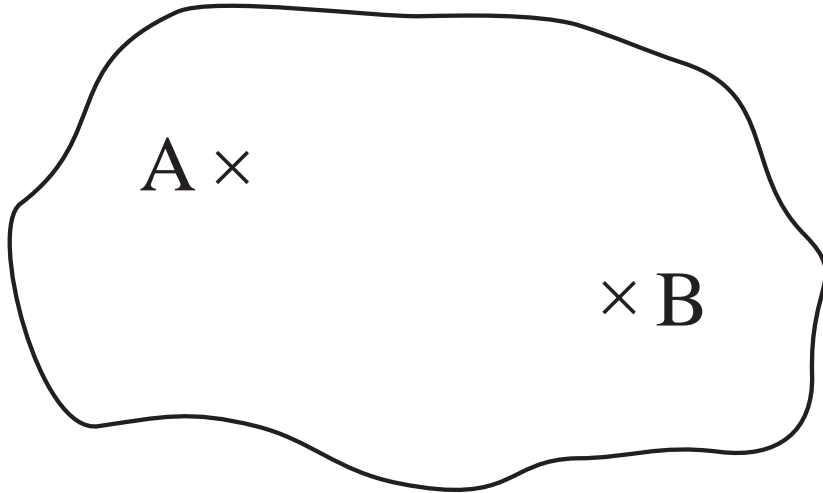




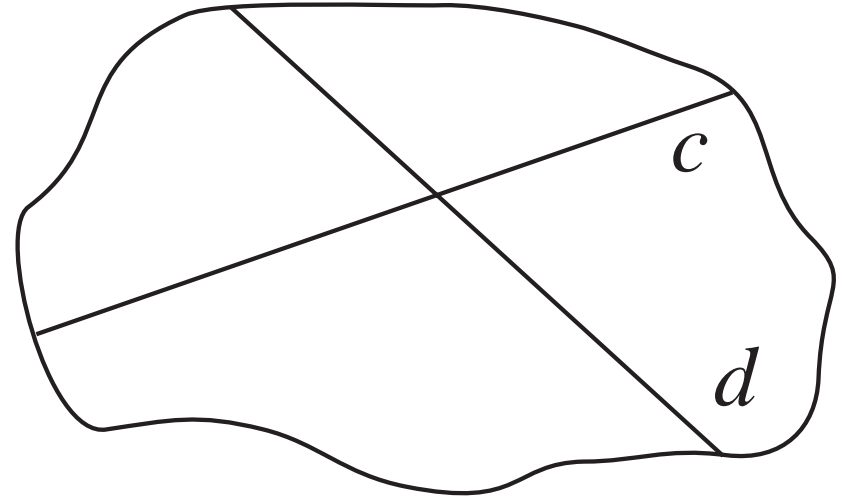




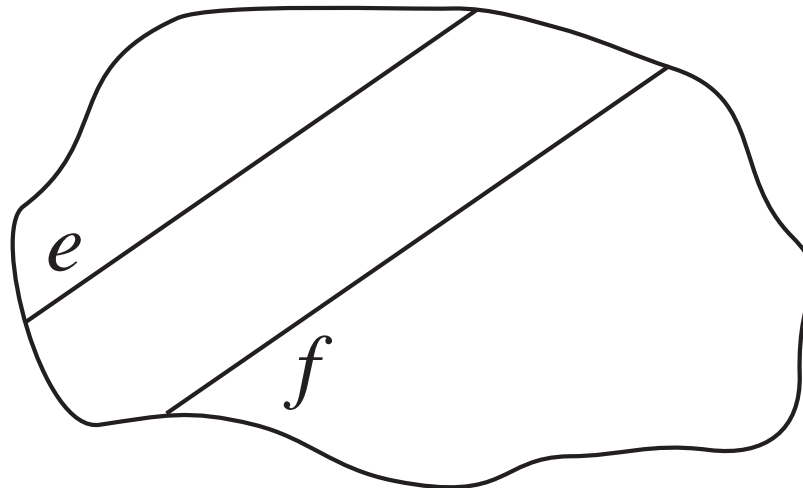
a) trees A and B



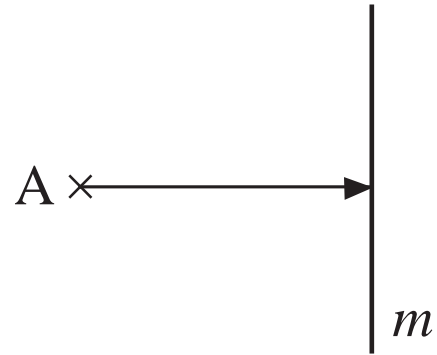
b) paths  $c$  and  $d$



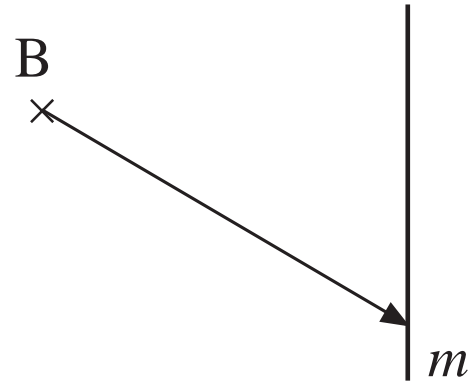
c) paths  $e$  and  $f$



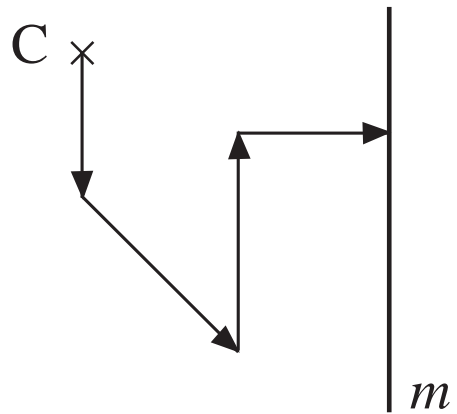
a)



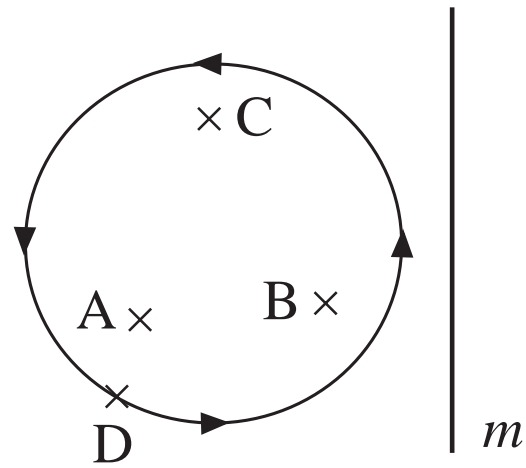
b)



c)



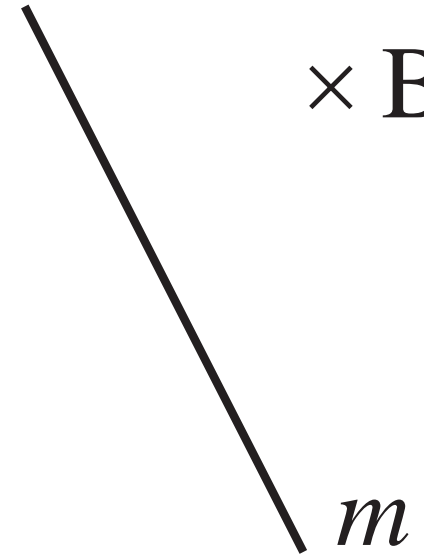
d)



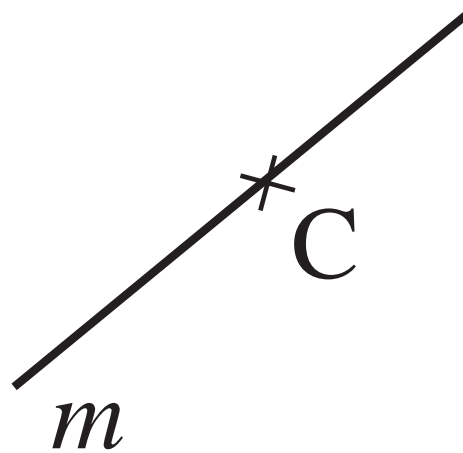
a)

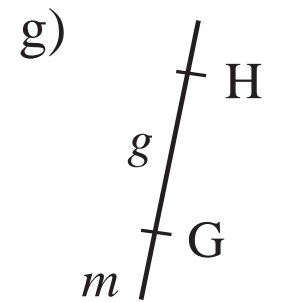
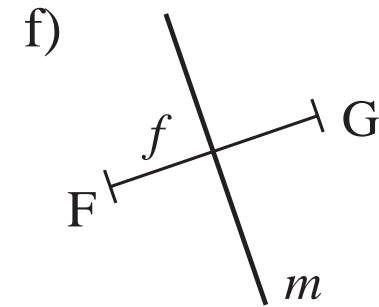
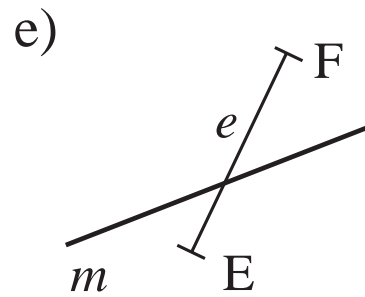
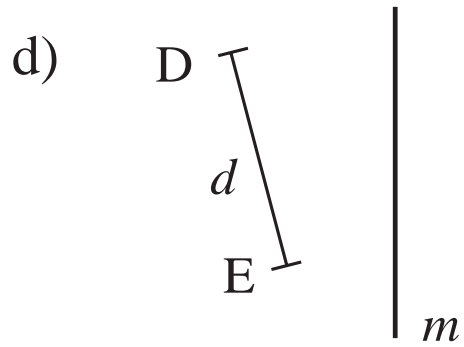
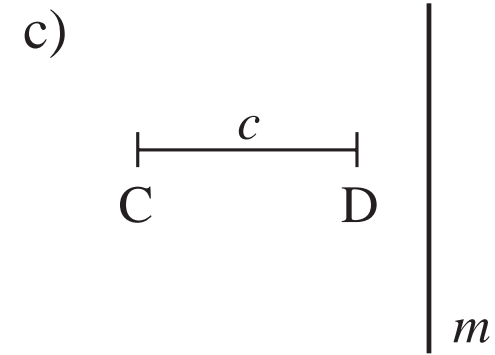
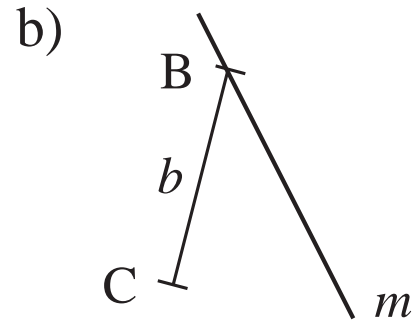
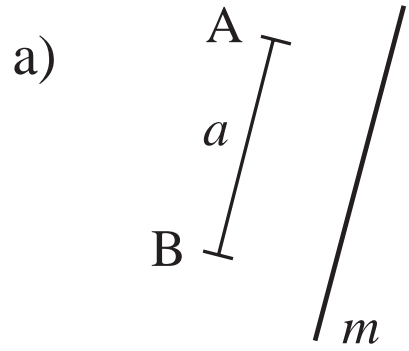
 $A \times$ 

b)

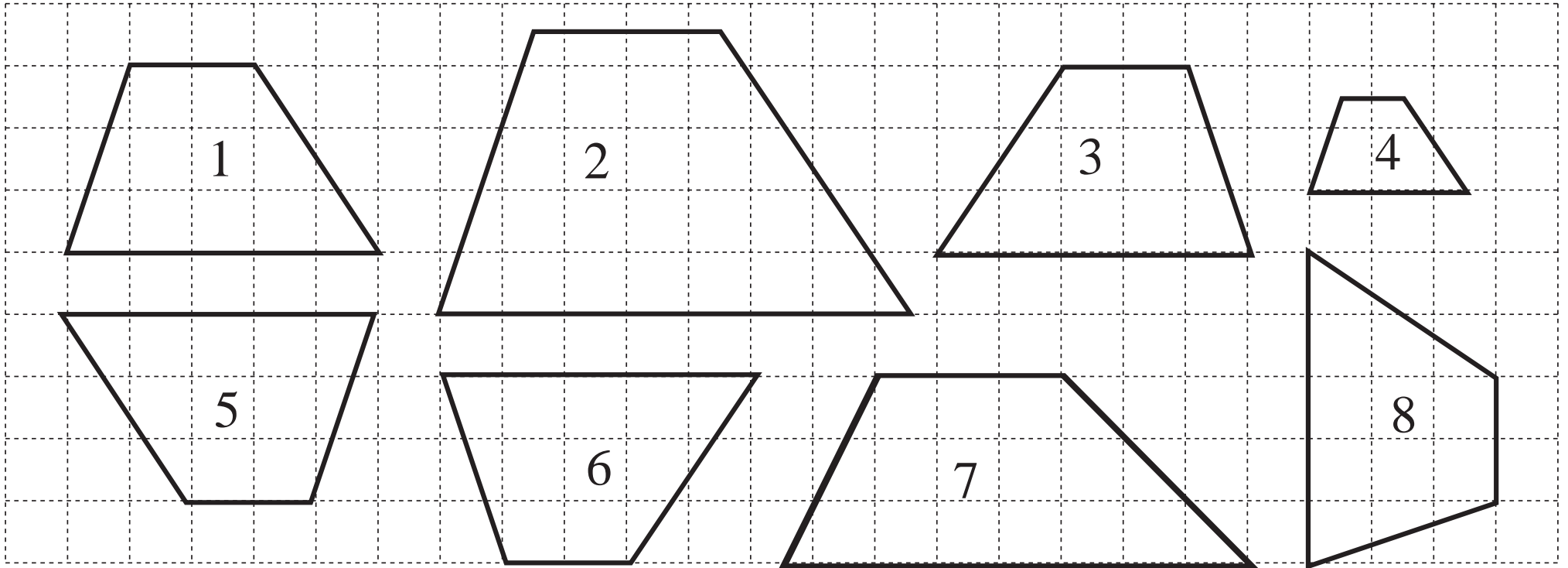
 $\times B$ 

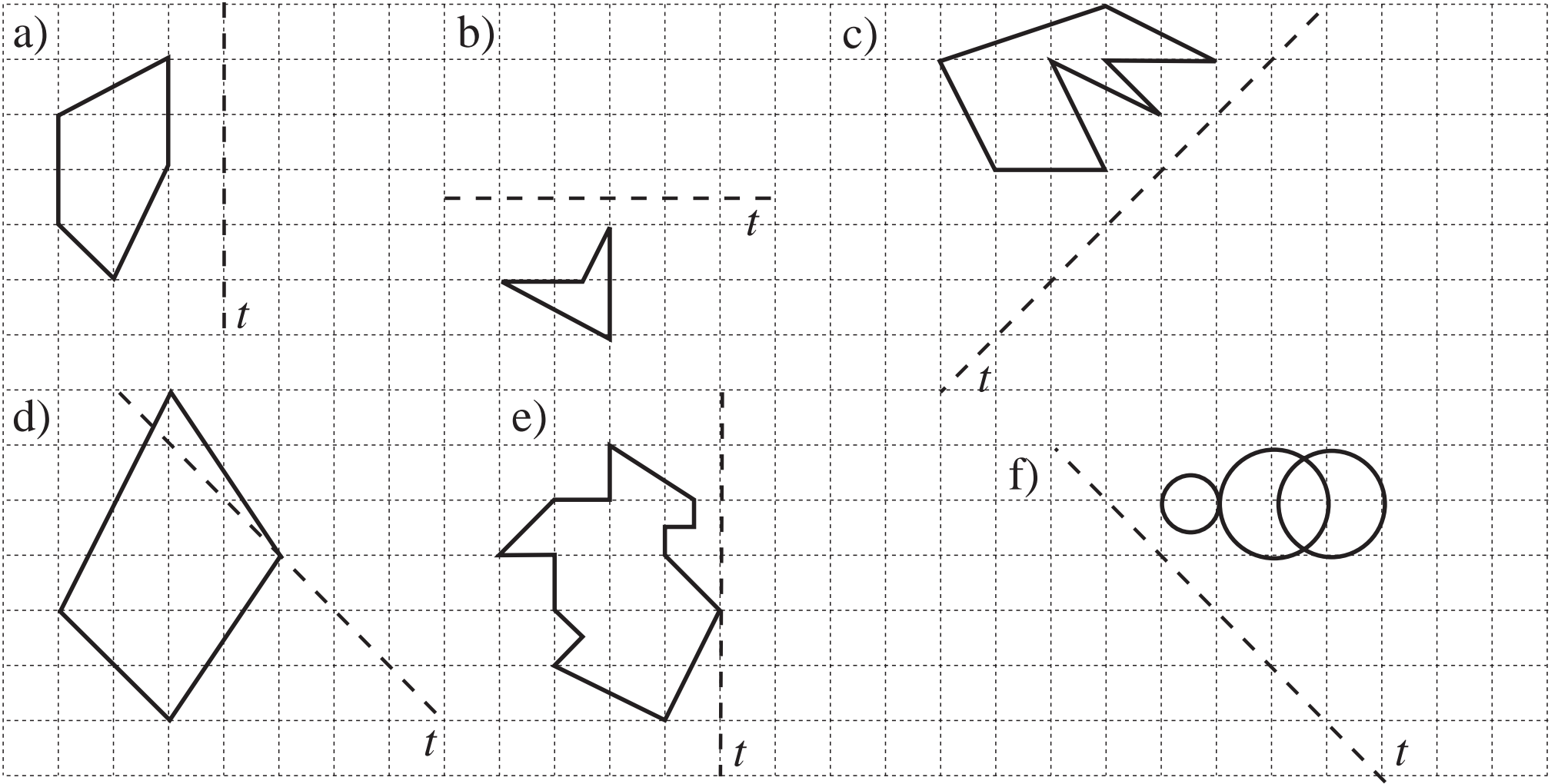
c)

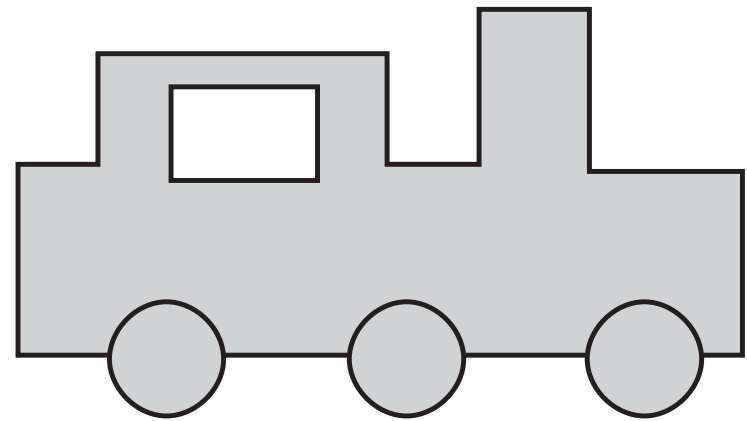




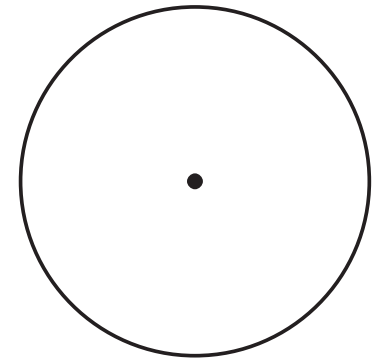
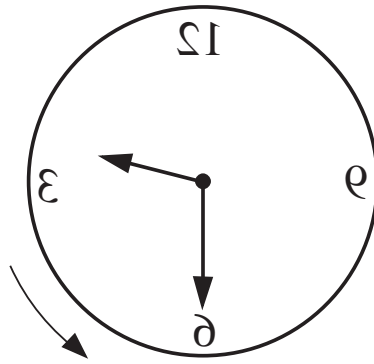
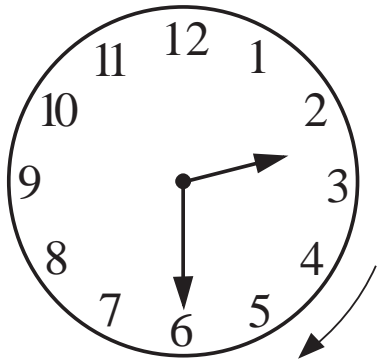


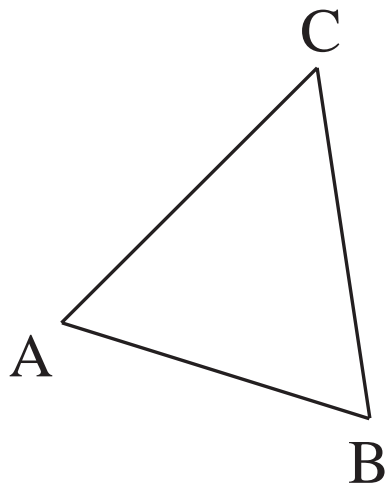


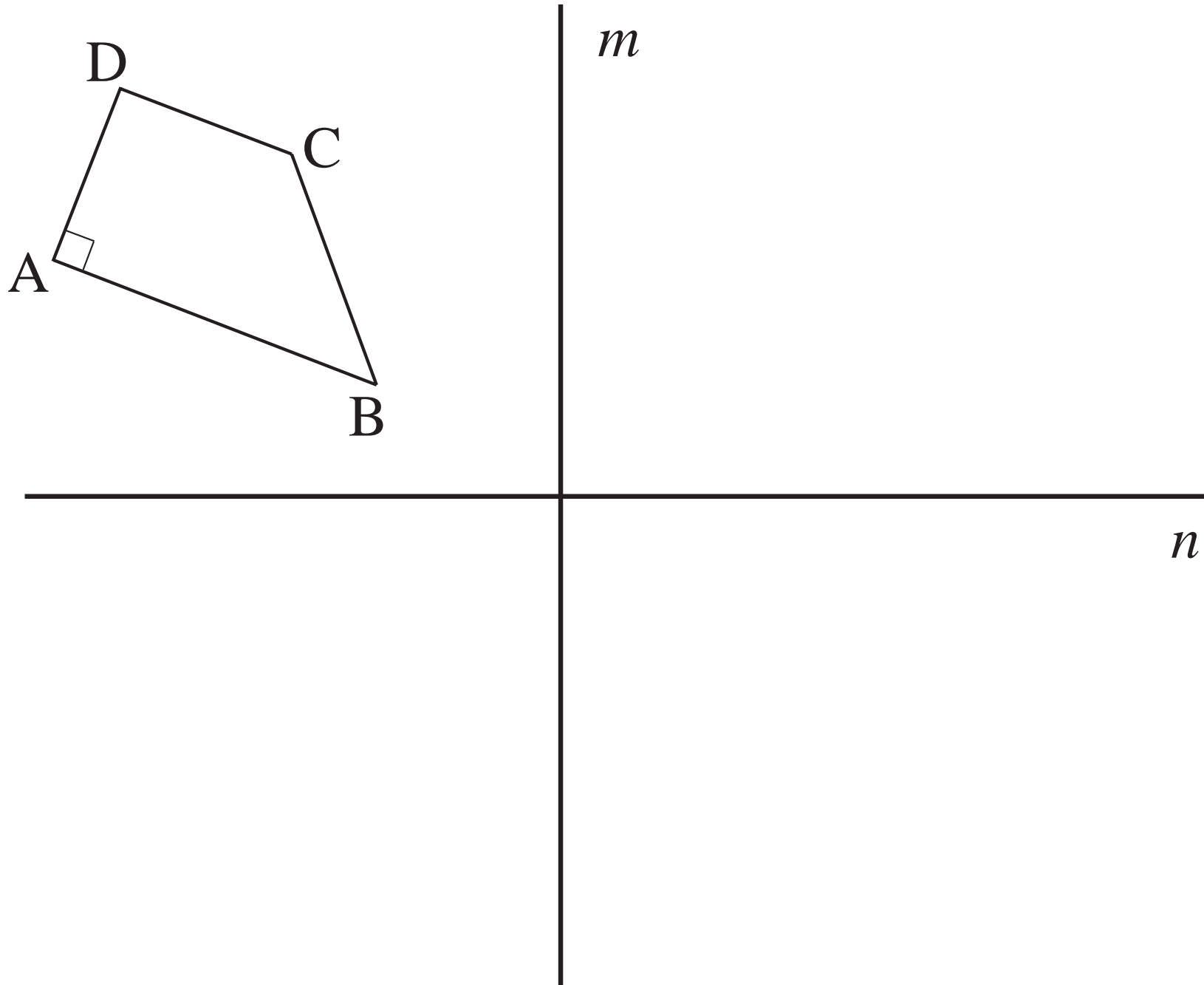


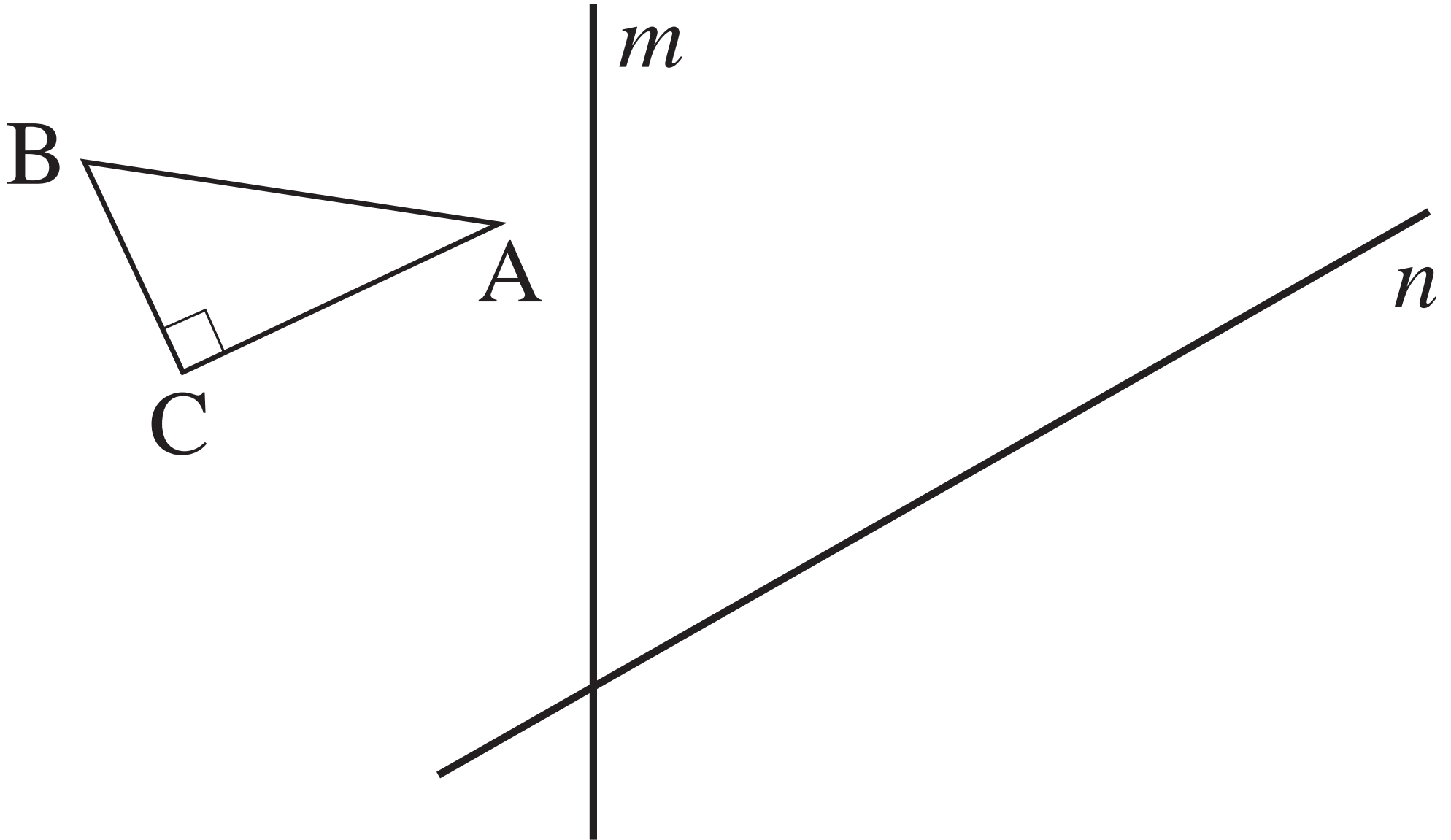


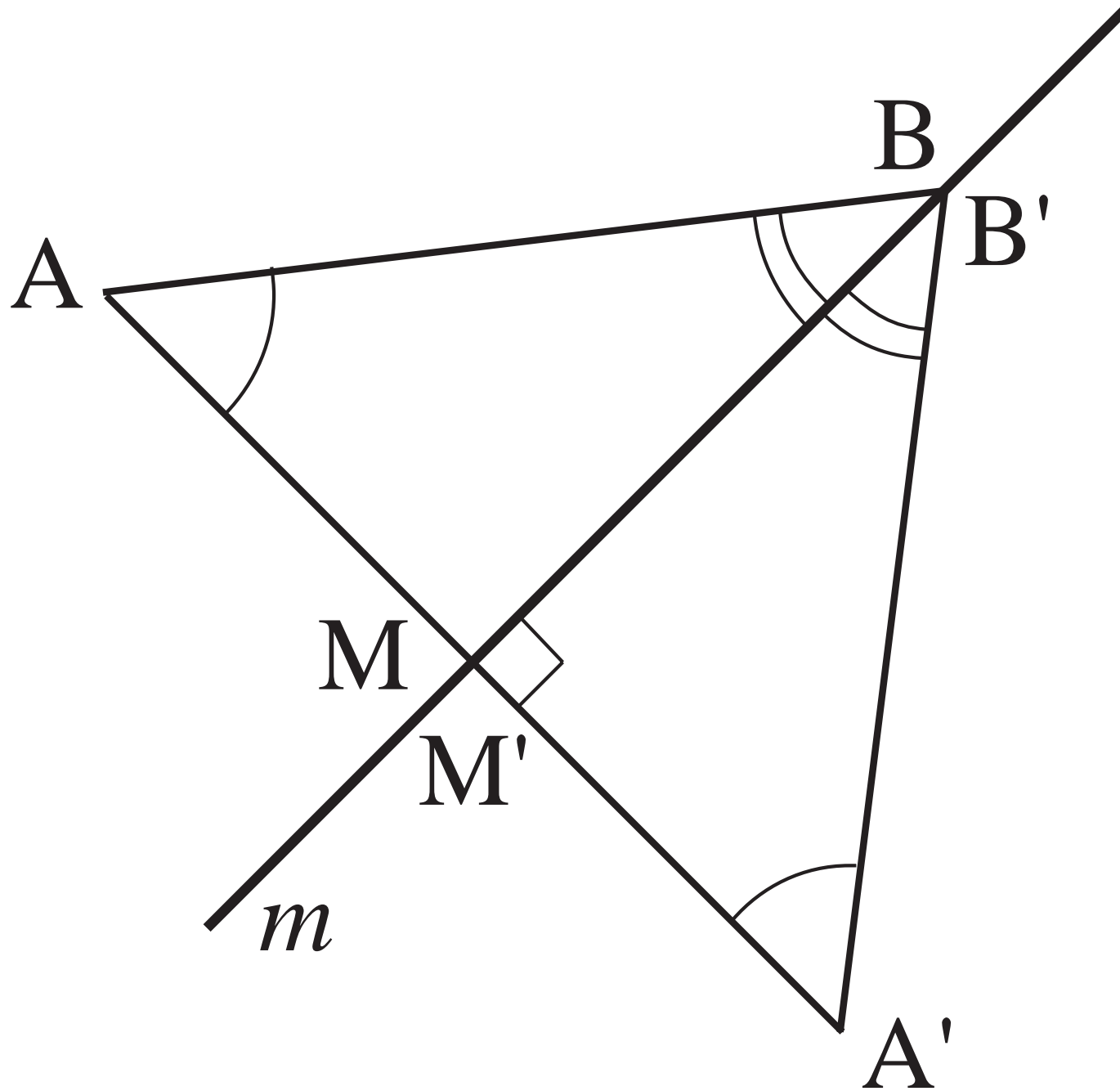
Use 2 copies, 1 on transparent paper.



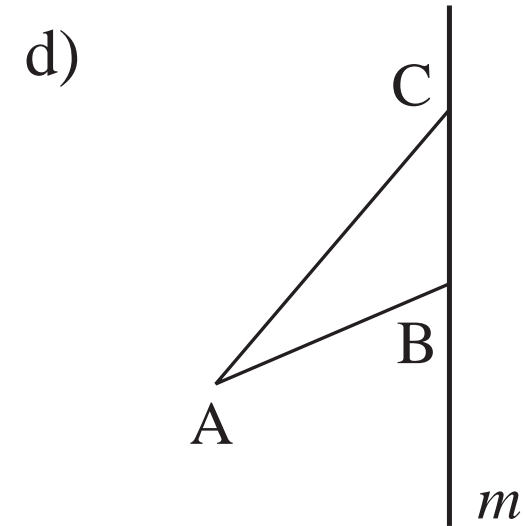
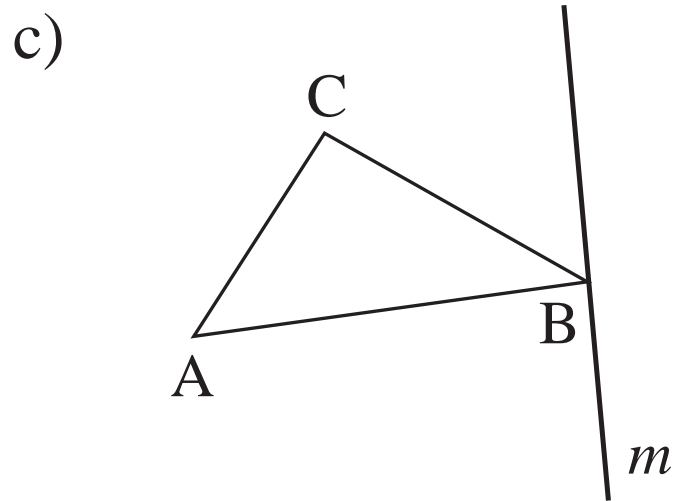
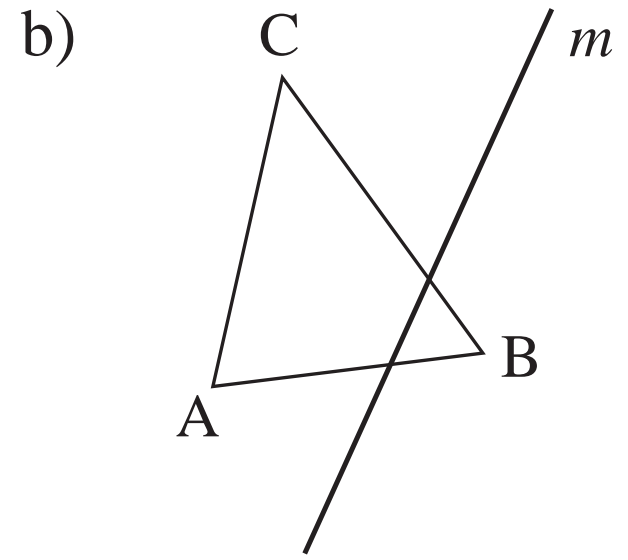
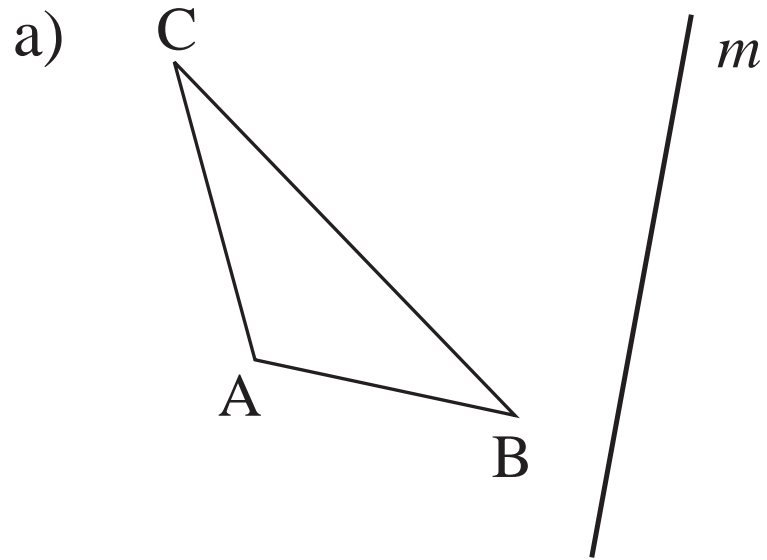


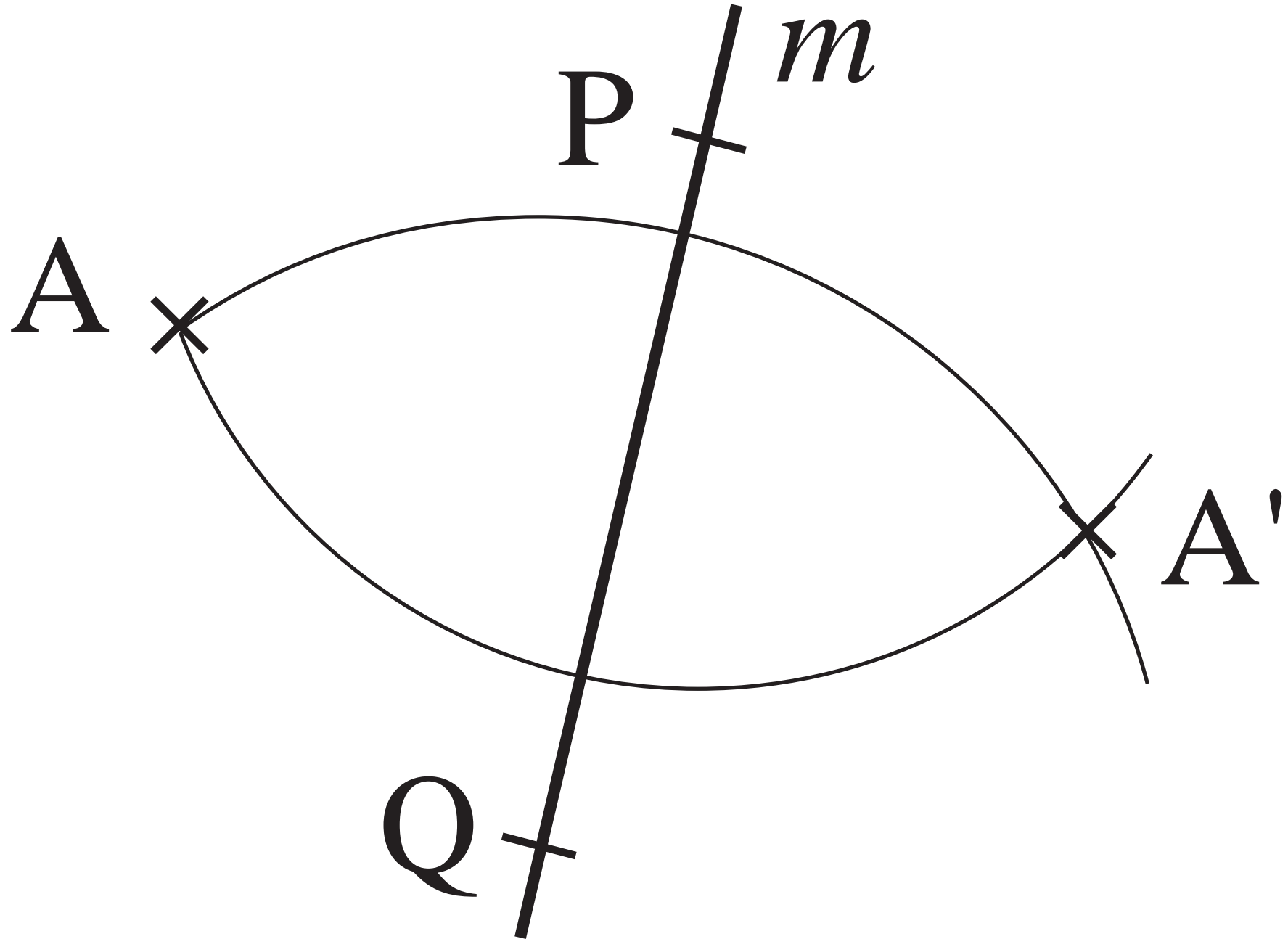


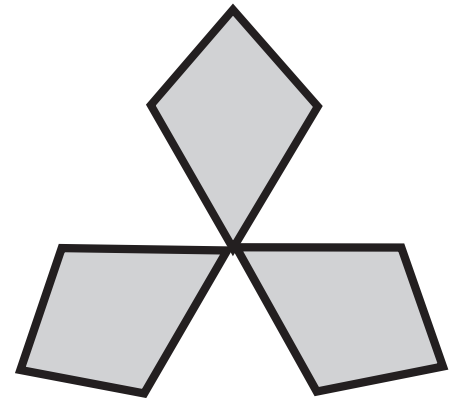
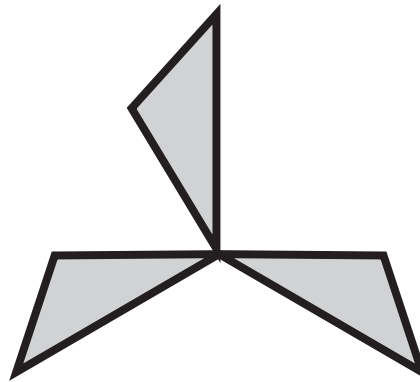
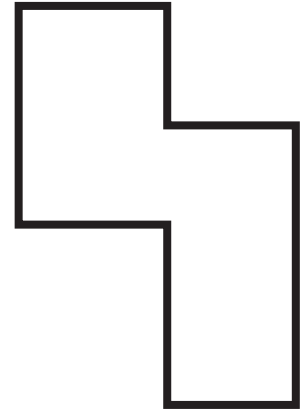
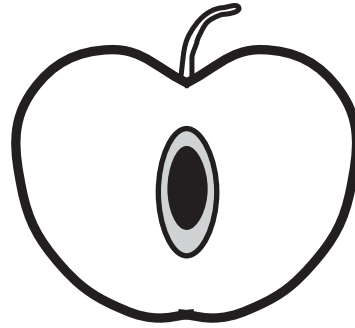
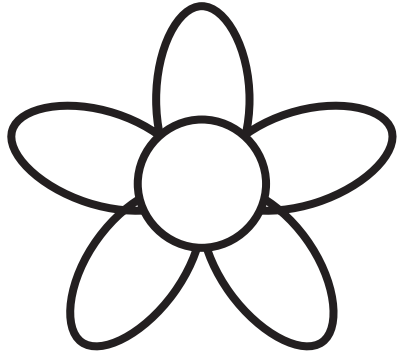




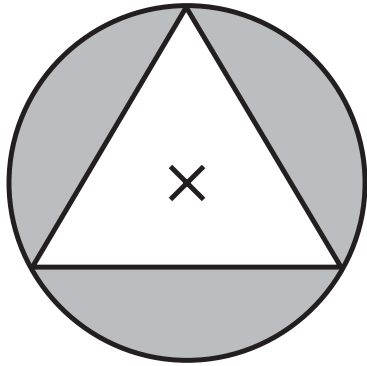




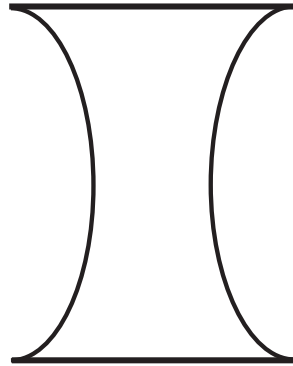




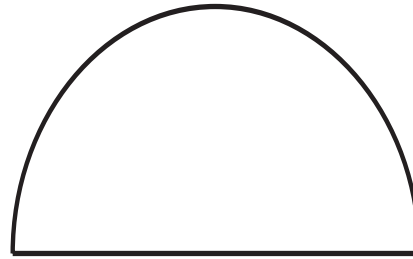
1



2



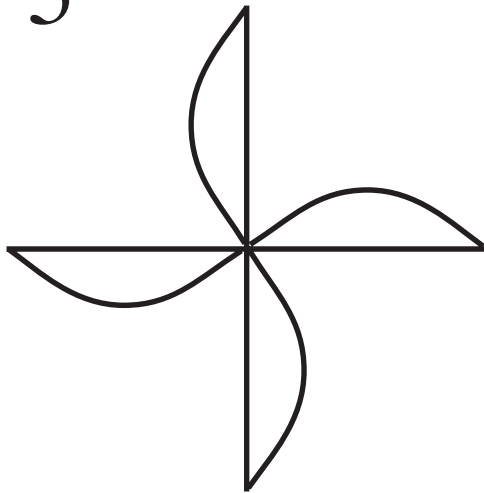
3



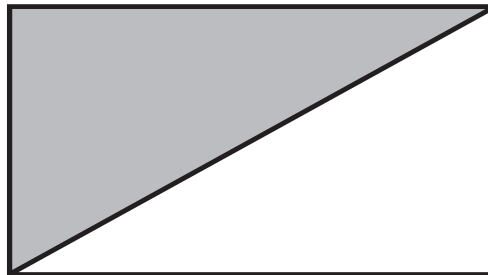
4



5



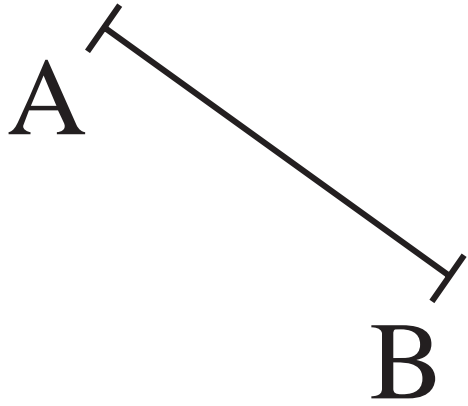
6



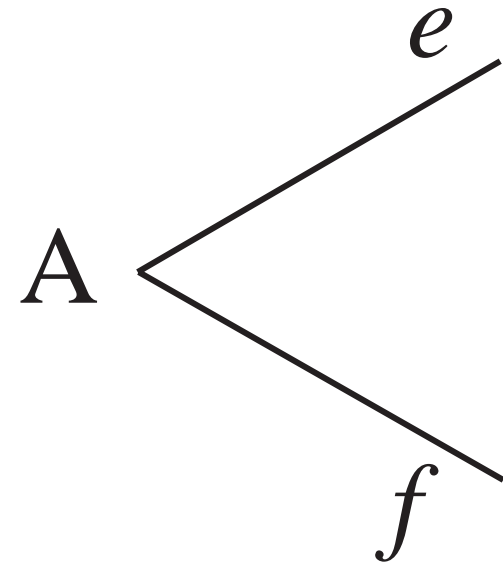
7



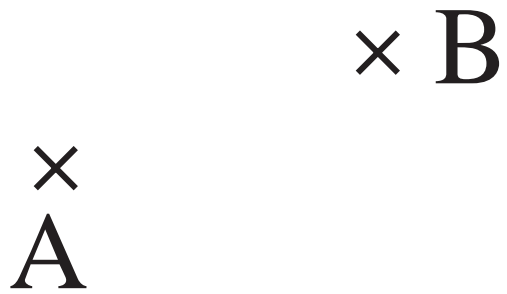
a)



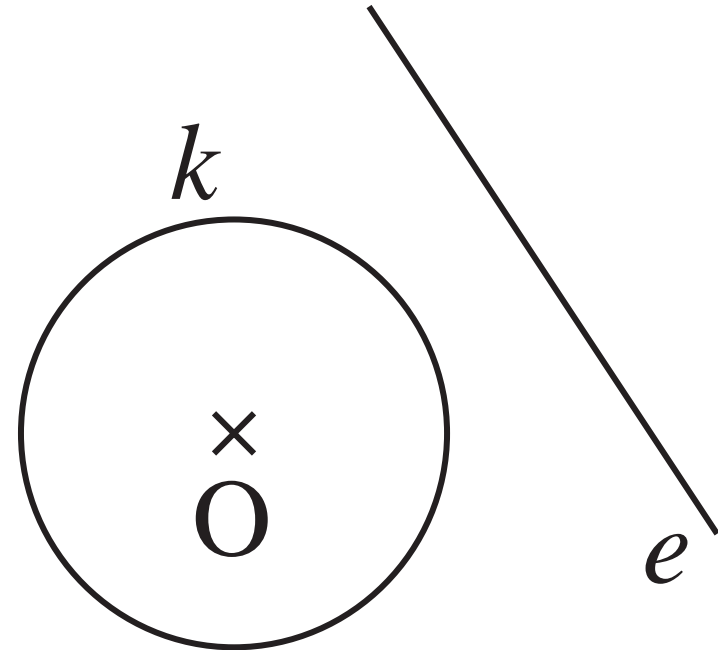
b)

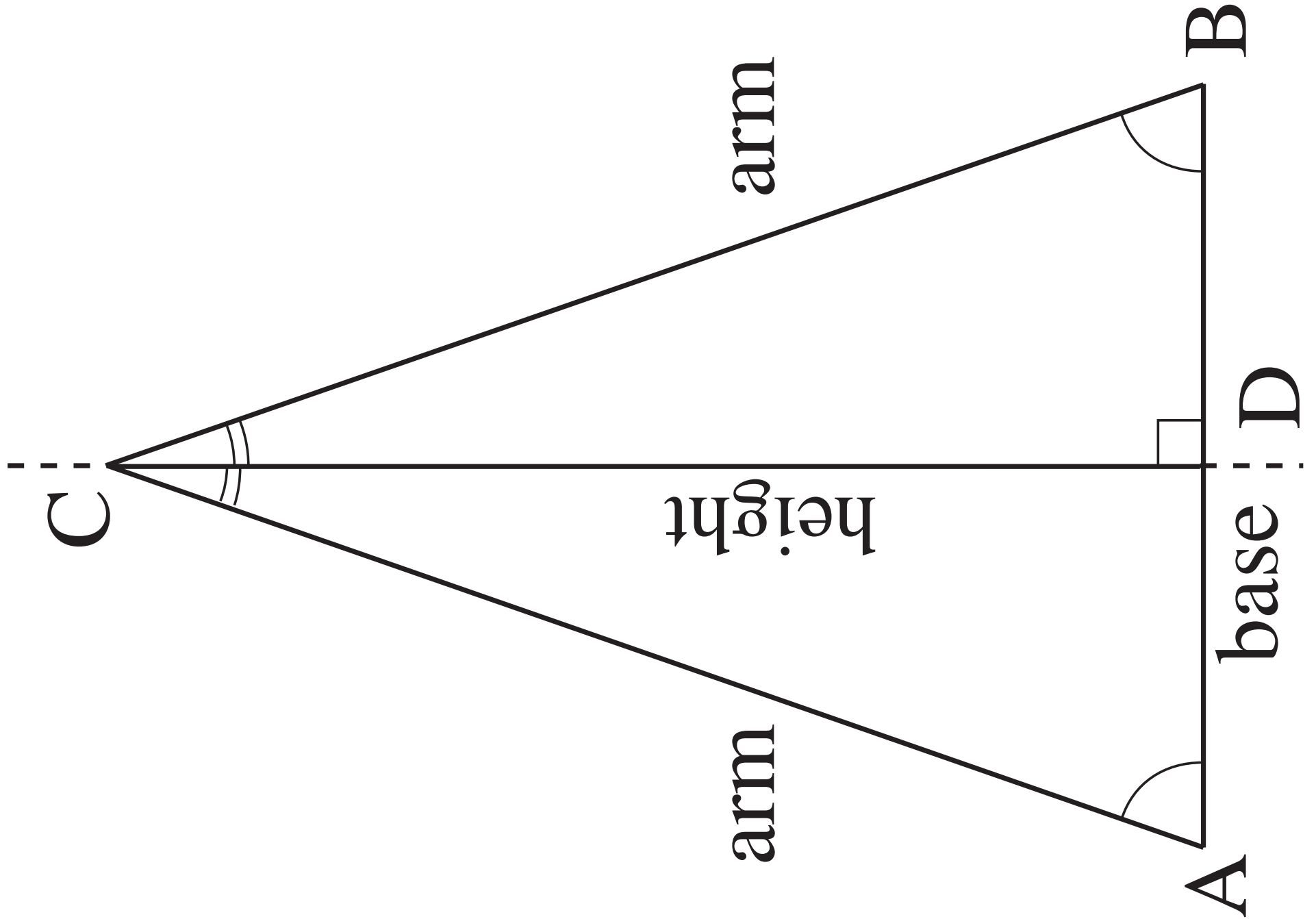


c)



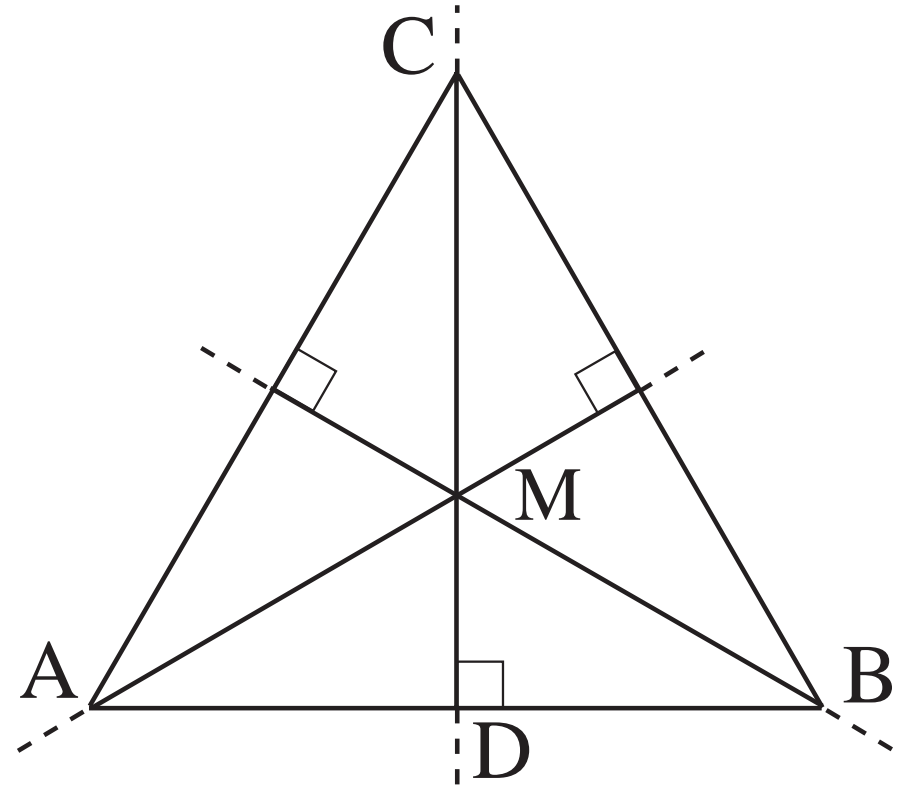
d)





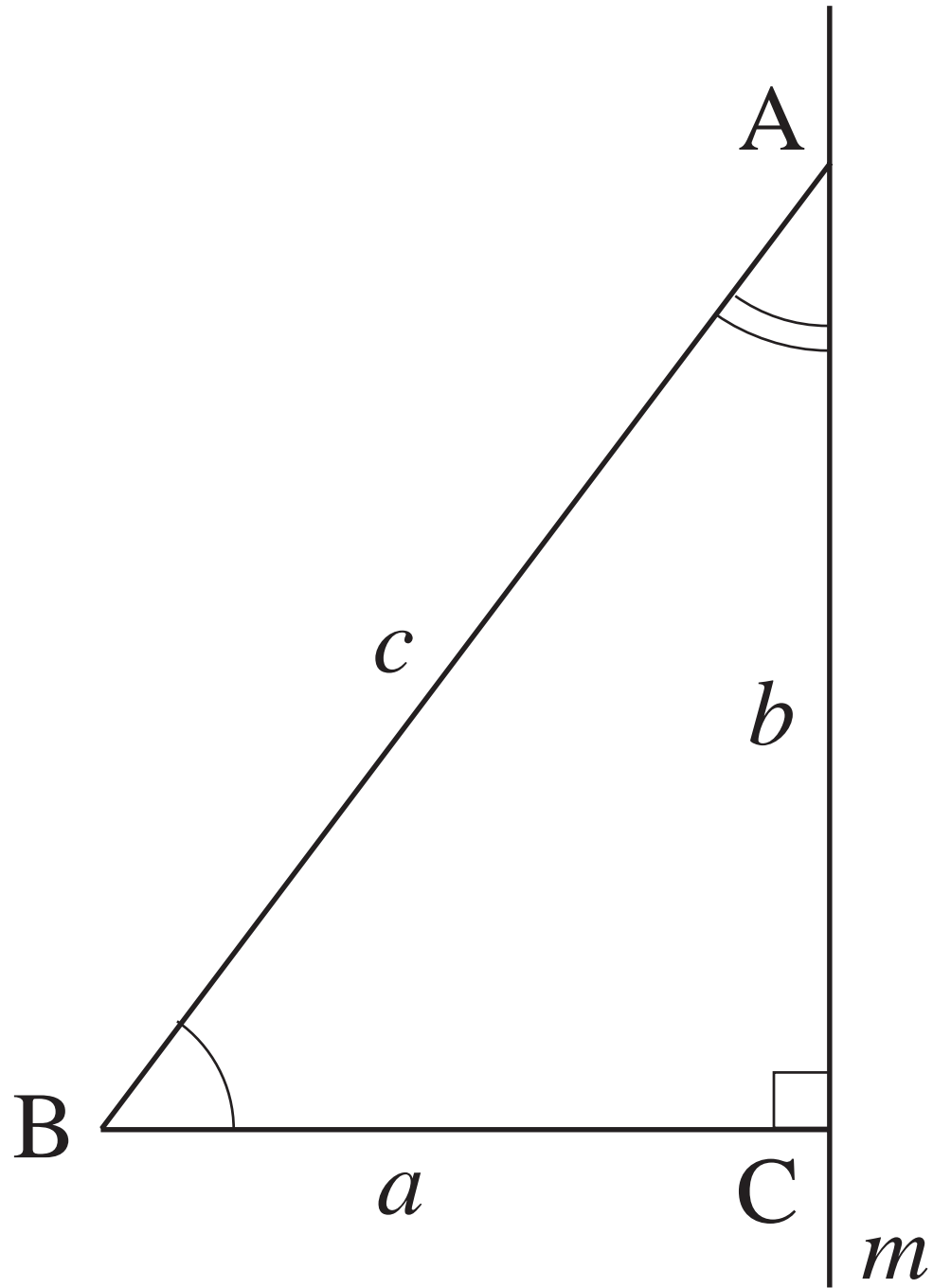
- a) This **symmetrical** triangle has  equal sides and is called an **isosceles** triangle.
- b) If a triangle has **2** equal sides, it is .
- c)  $AC =$  ;  $\angle A$    $\angle B$ ;  $\angle ACD = \angle$
- d) The equal sides are called the  of the triangle.
- e) AB is the  of the triangle.
- f) The line of symmetry **bisects** the  and is perpendicular to it.
- g)  $AB \perp$  ;  $AD$    $DB$
- h) CD is the  of triangle ABC from its base.

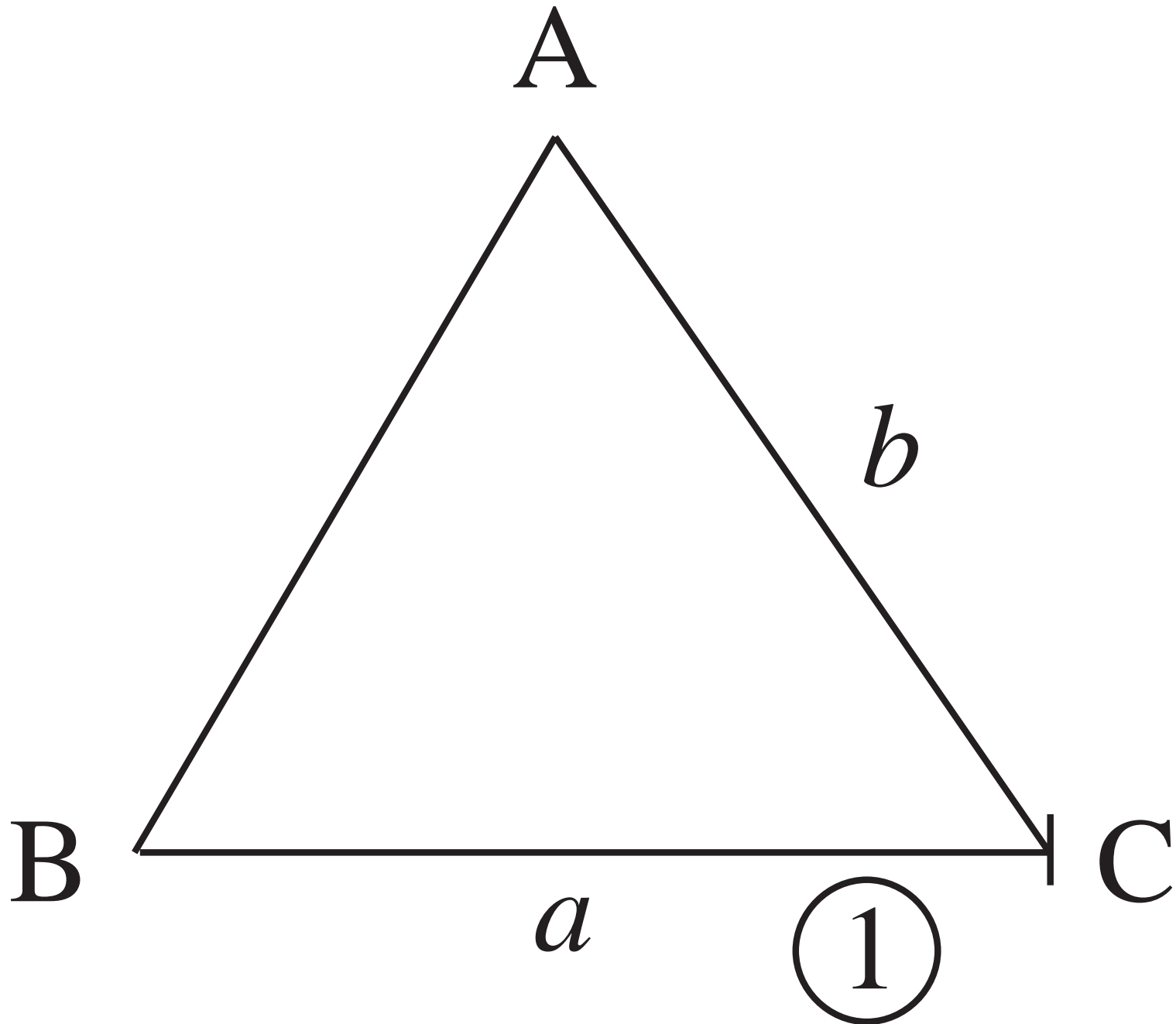
- a)  $\angle A = \boxed{\phantom{000}} = \boxed{\phantom{000}}$   
 $AB \perp \boxed{\phantom{000}}$   
 $AD \boxed{\phantom{00}} DB$

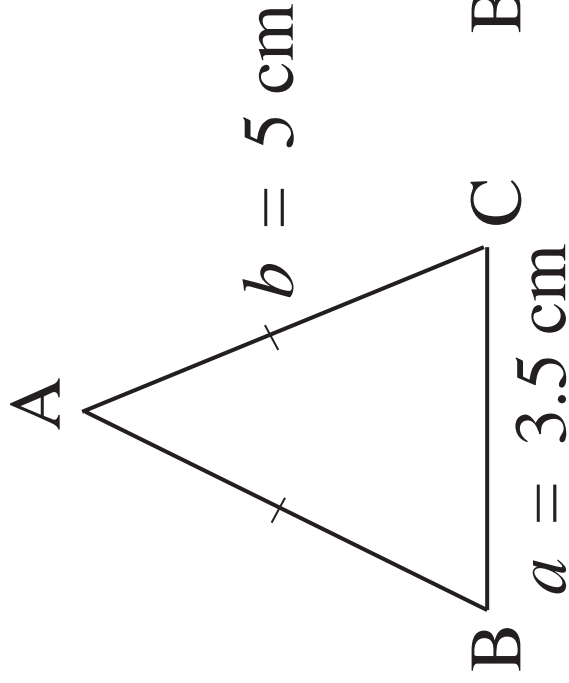


- b) Any equilateral triangle is an  $\boxed{\phantom{00000000}}$  triangle.
- c) An equilateral triangle has  $\boxed{\phantom{000}}$  lines of symmetry.
- d) DC is the  $\boxed{\phantom{000000}}$  of the equilateral triangle.



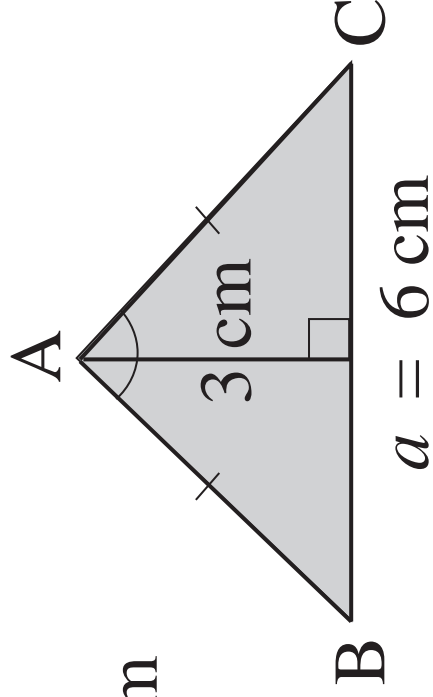






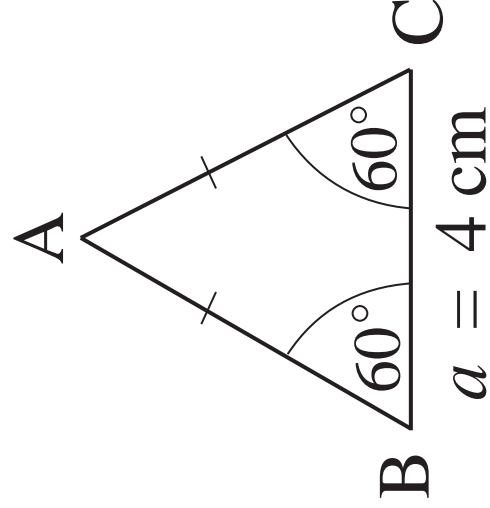
$$\angle A \approx$$

$$\angle B = \angle C \approx$$



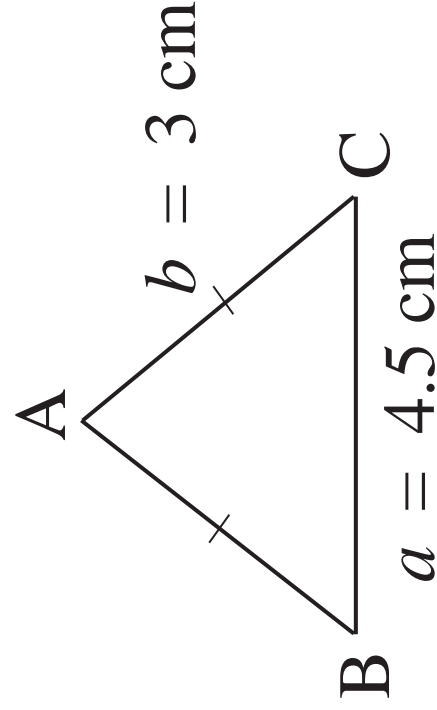
$$\angle A \approx$$

$$\angle B = \angle C =$$



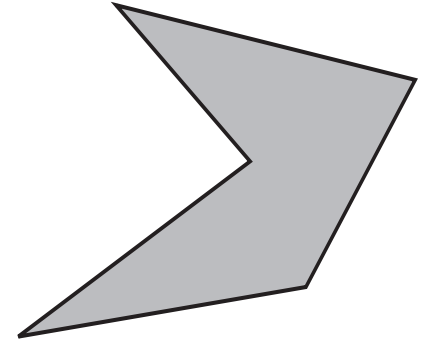
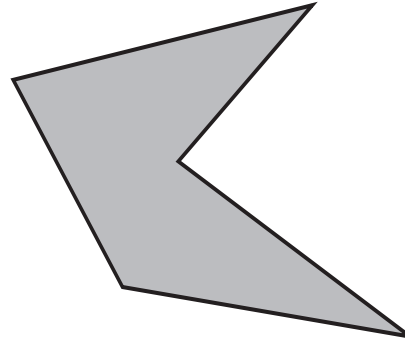
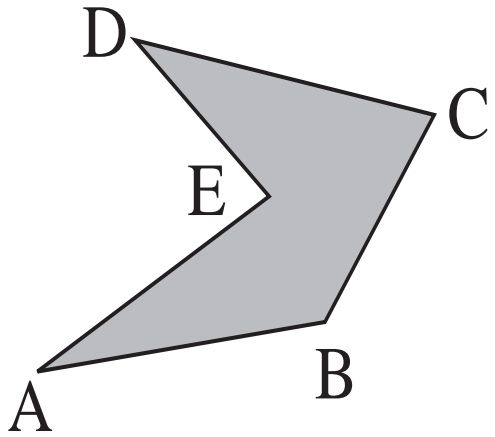
$$\angle A =$$

$$\angle B = \angle C = 60^\circ$$

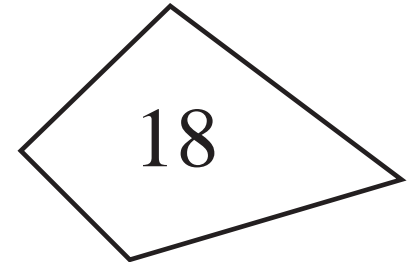
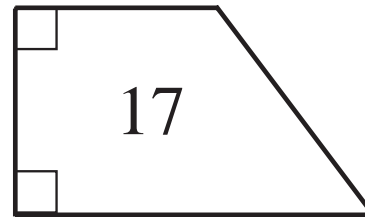
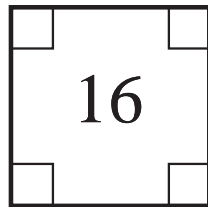
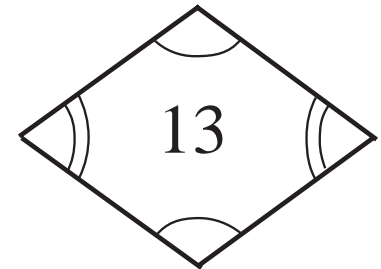
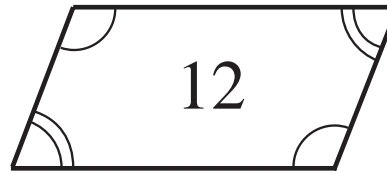
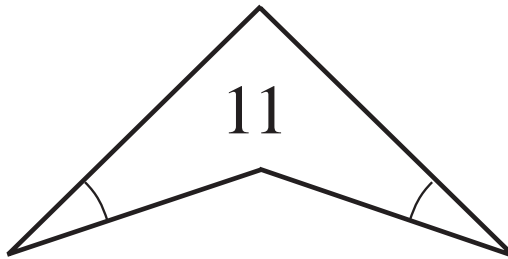
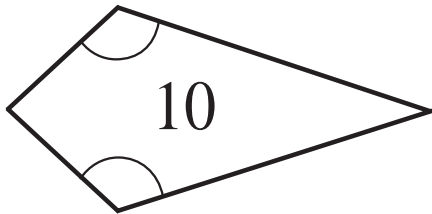
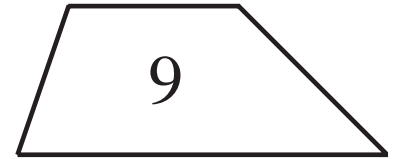
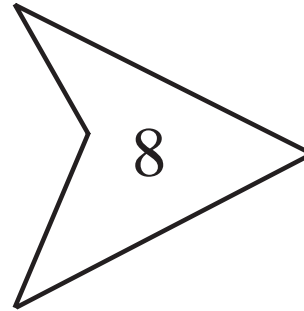
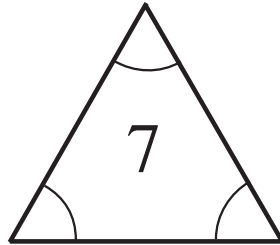
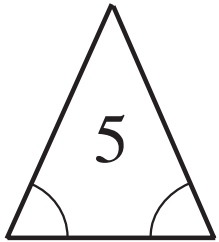
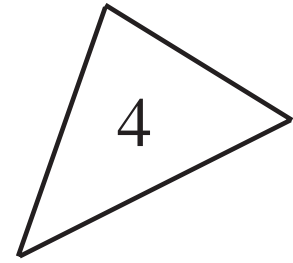
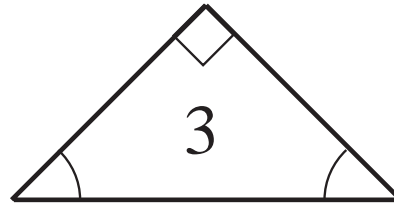
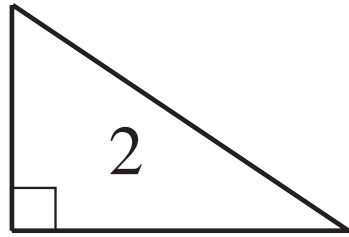
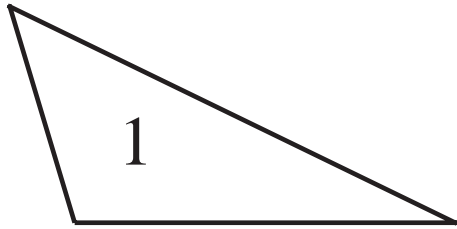


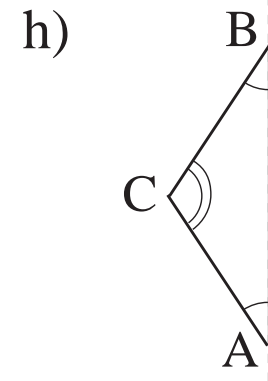
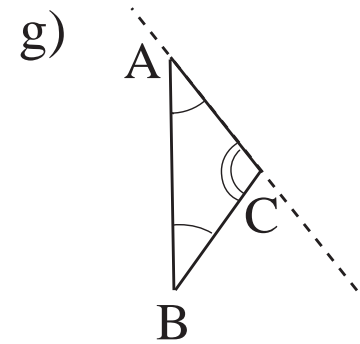
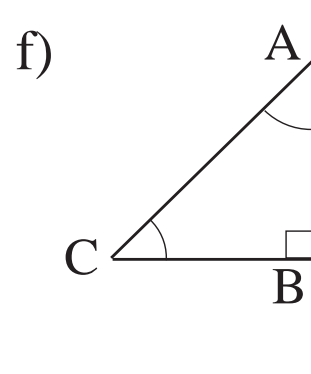
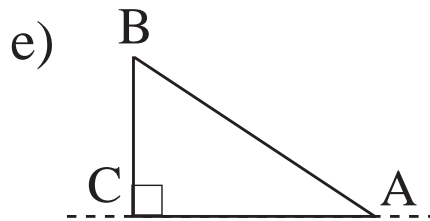
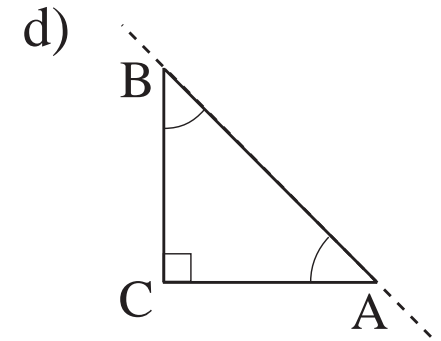
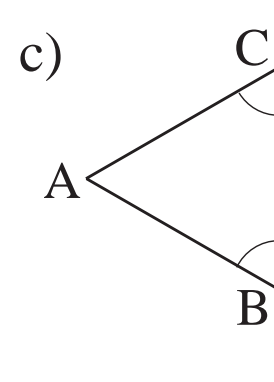
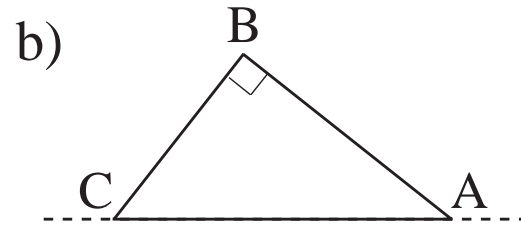
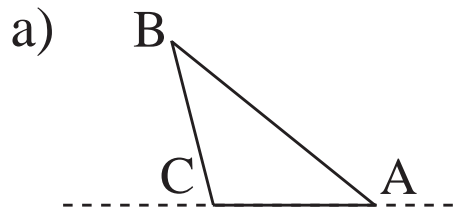
$$\angle A \approx$$

$$\angle B = \angle C \approx$$



- a) An **equilateral** triangle has angles of ° and has three  sides.
- b) An **isosceles** triangle has at least  equal .
- c) An **equilateral** triangle is also an  triangle.
- d) A triangle which has sides in the ratio of 3 : 4 : 5 is a  triangle.
- e) A triangle with 3 different sides is called a  triangle.
- f) There is no triangle which has a  angle.
- g) The sum of the angles of any triangle is °.





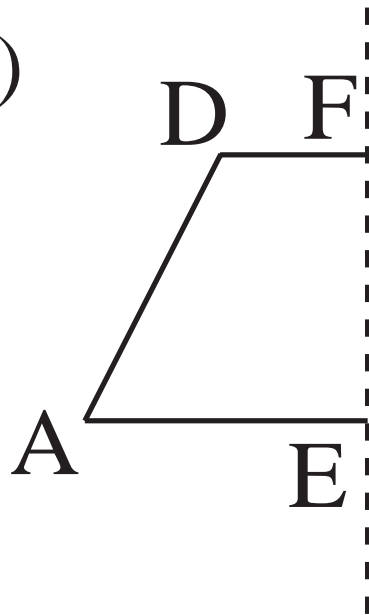
a)

 $B \times$ 

b)

 $B \times$ 

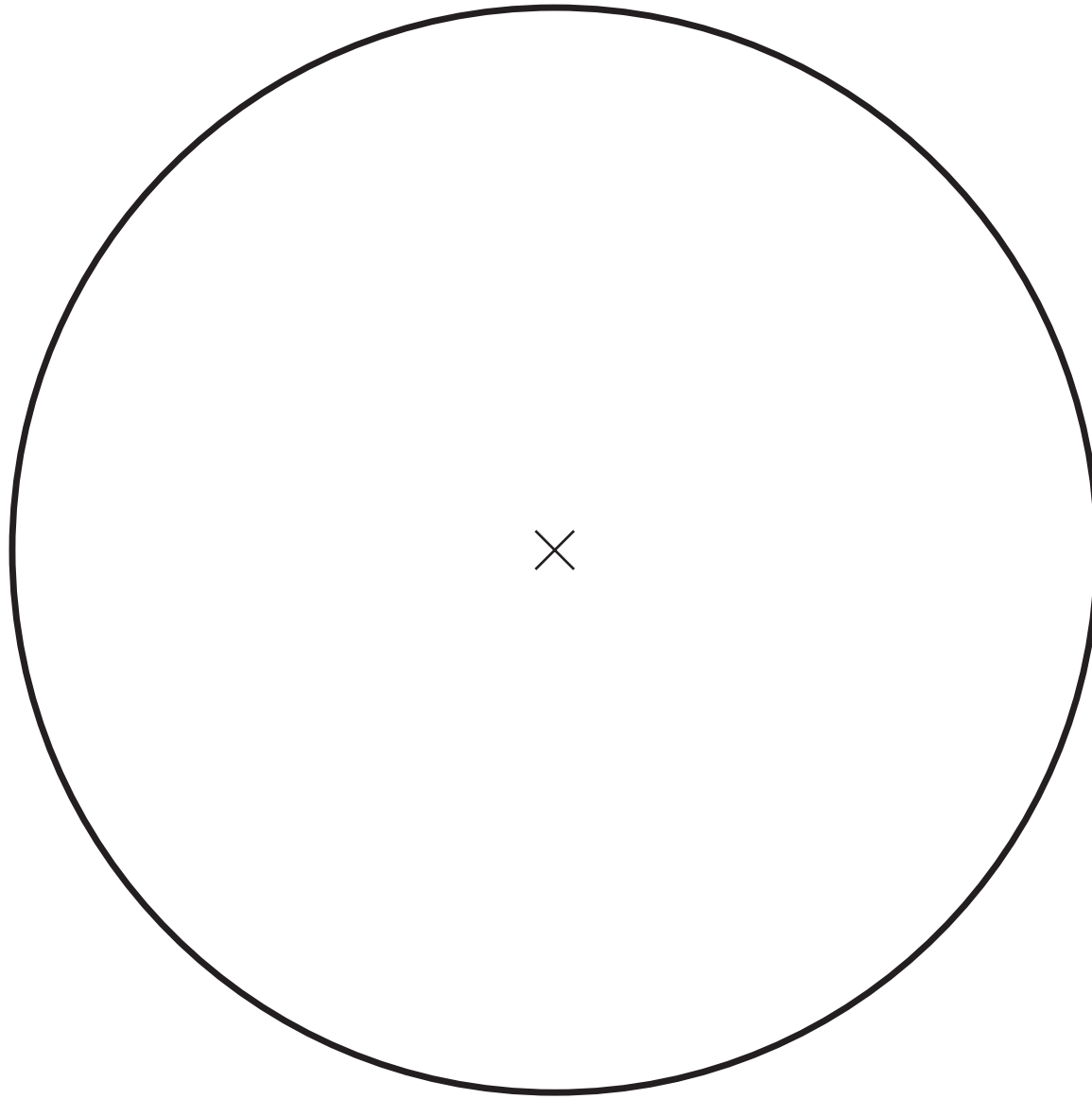
c)

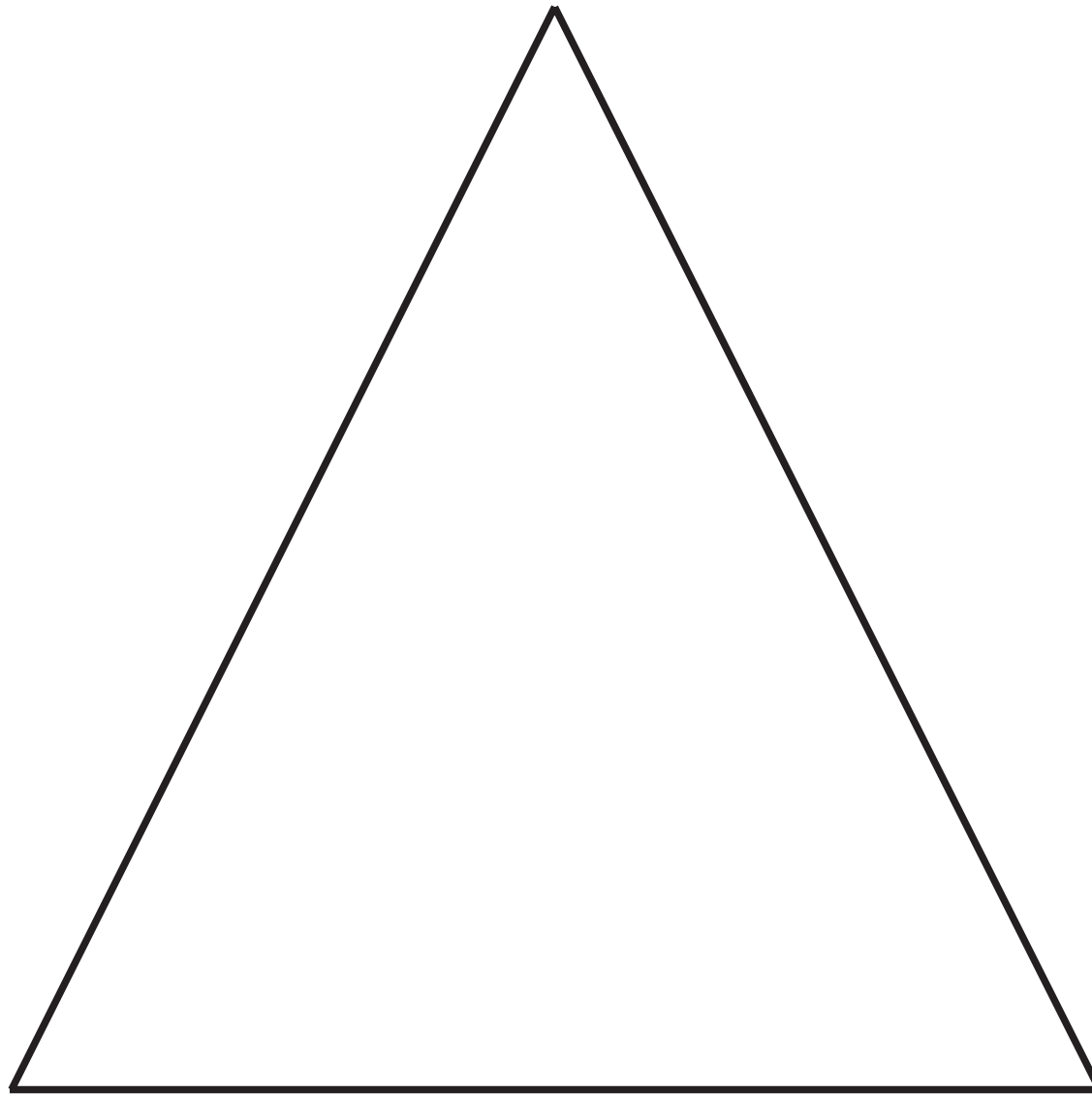


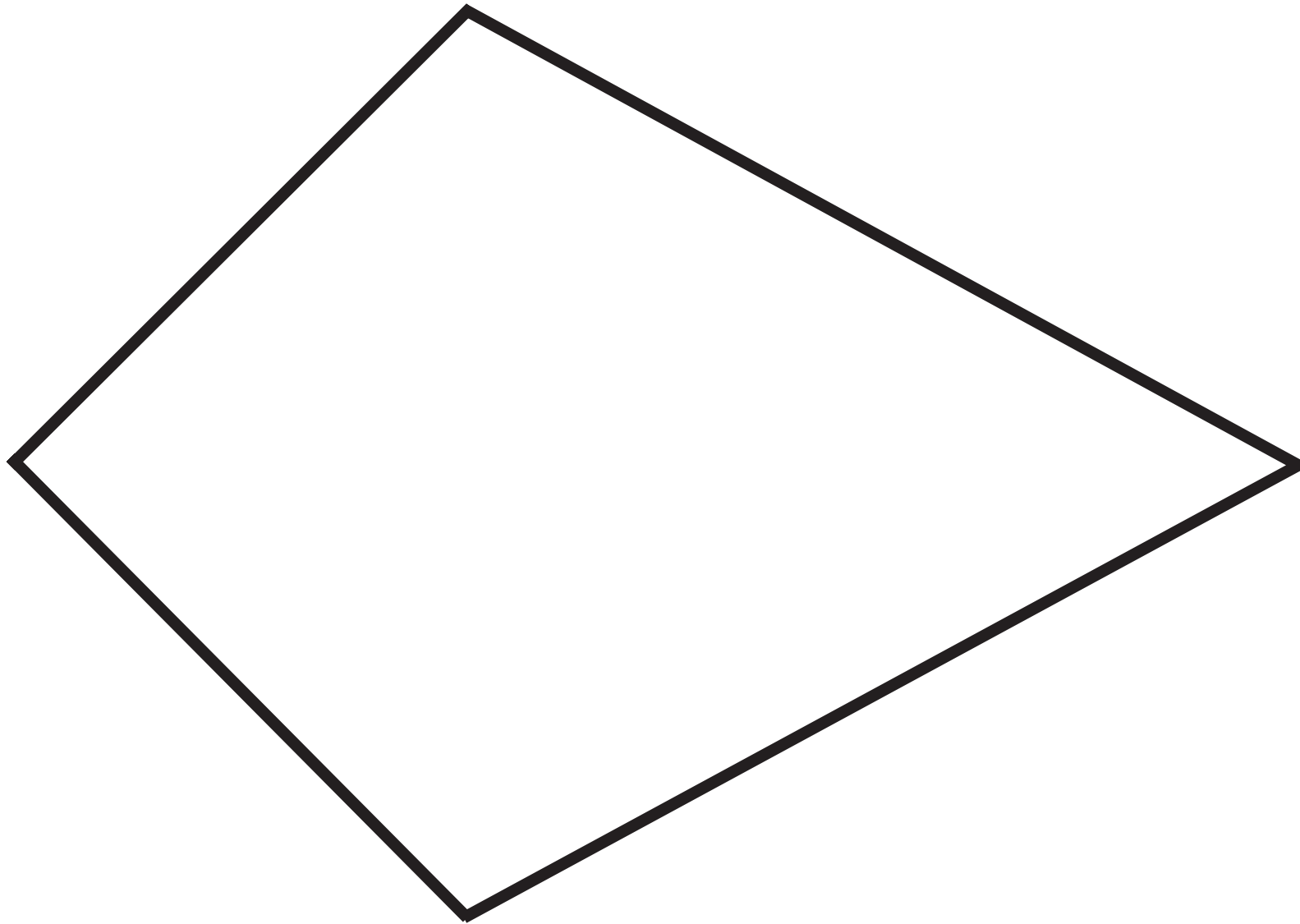


- a) A quadrilateral is called a  if its diagonals **bisect** each other.
- b) A quadrilateral with equal angles is called a .
- c) A quadrilateral with equal sides is called a .
- d) A **regular** quadrilateral is called a .

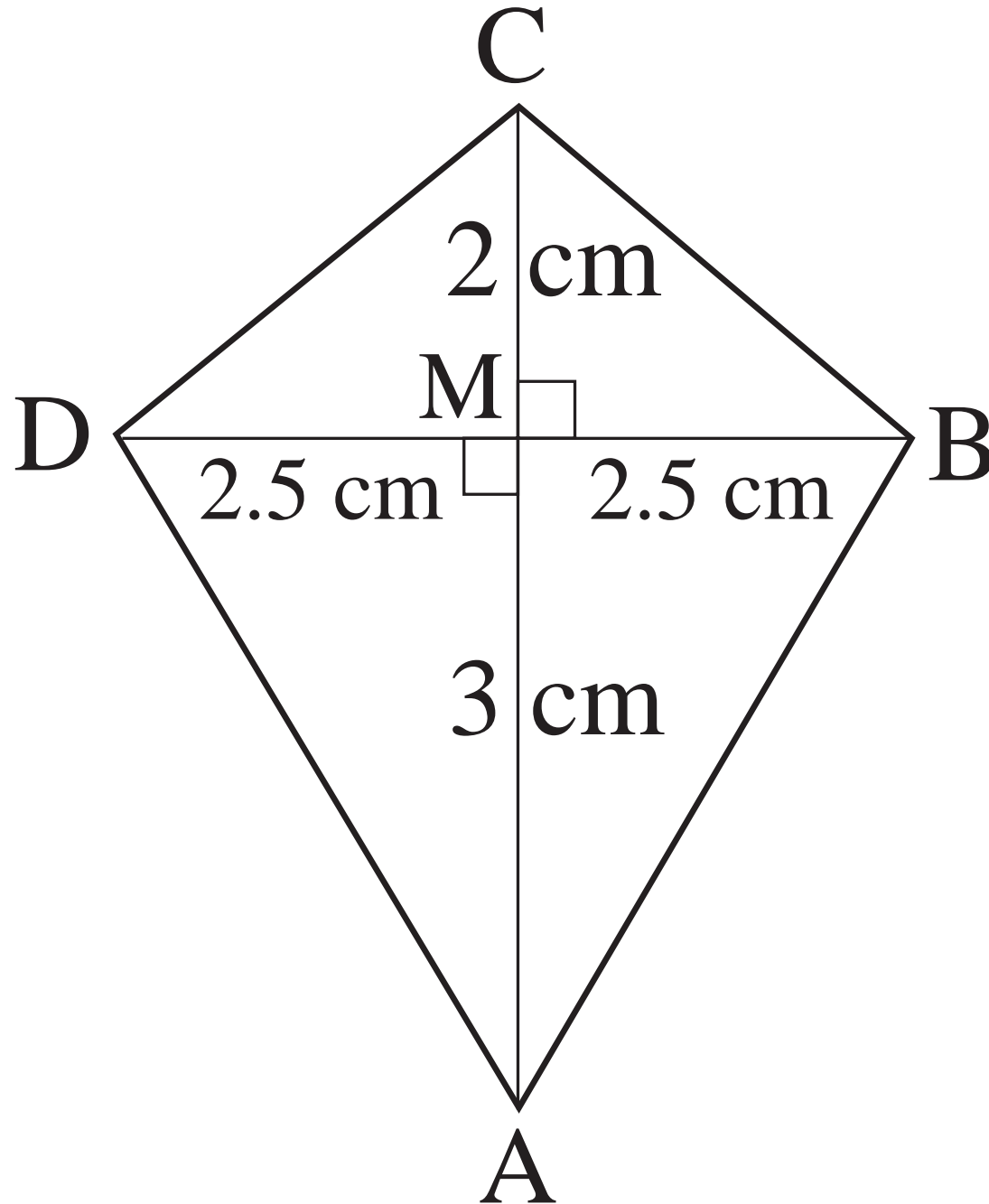
- e) A quadrilateral is called a  if one of its diagonals lies on a line of symmetry.
- f) Every deltoid has two pairs of adjacent  sides.
- g) Every rectangle is a .
- h) Every rhombus is a .

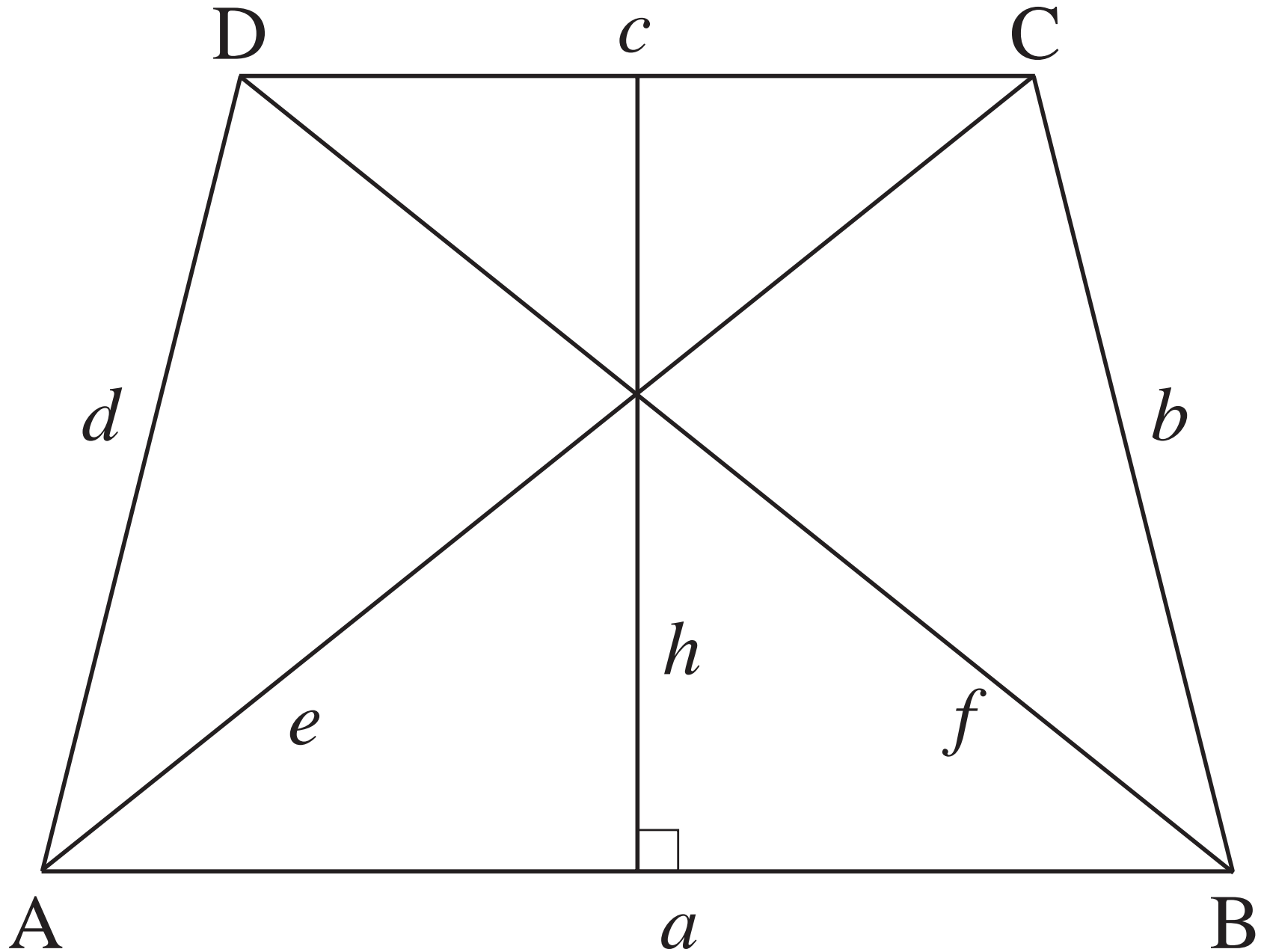


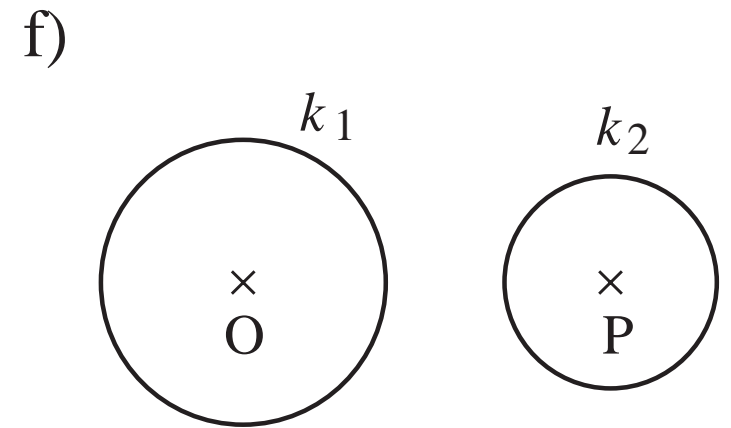
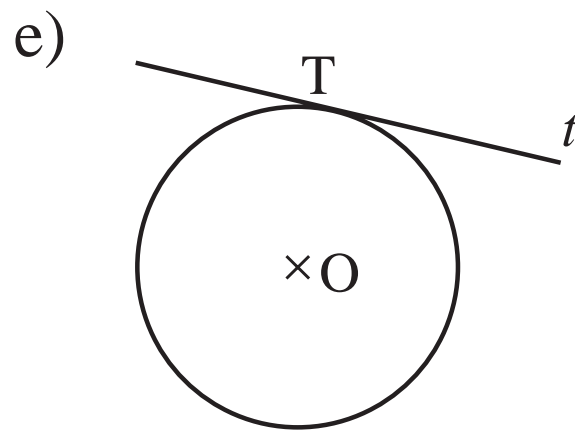
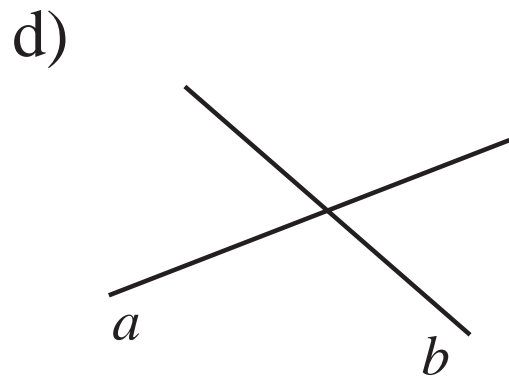
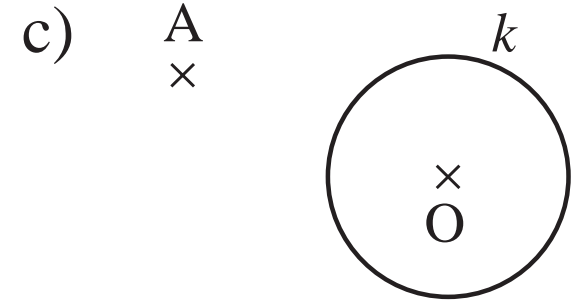
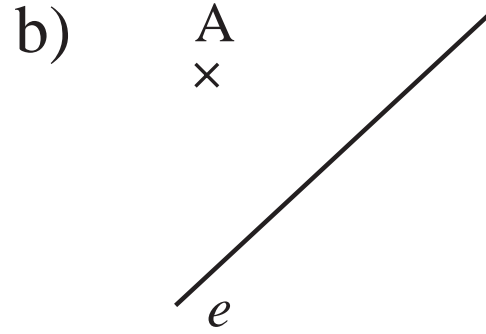
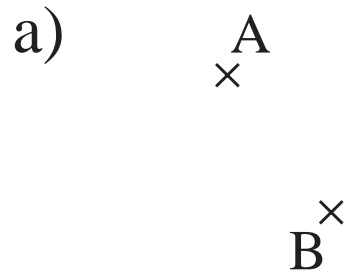




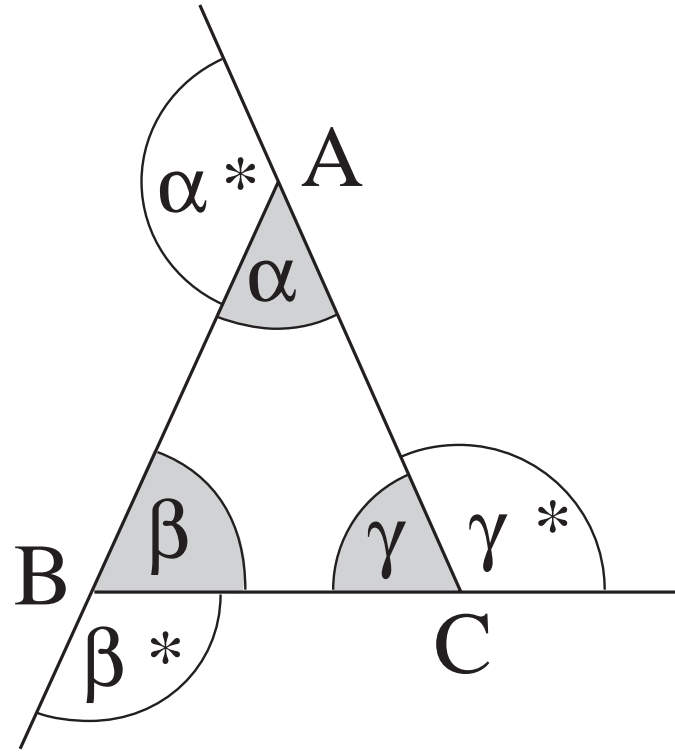
Sketch



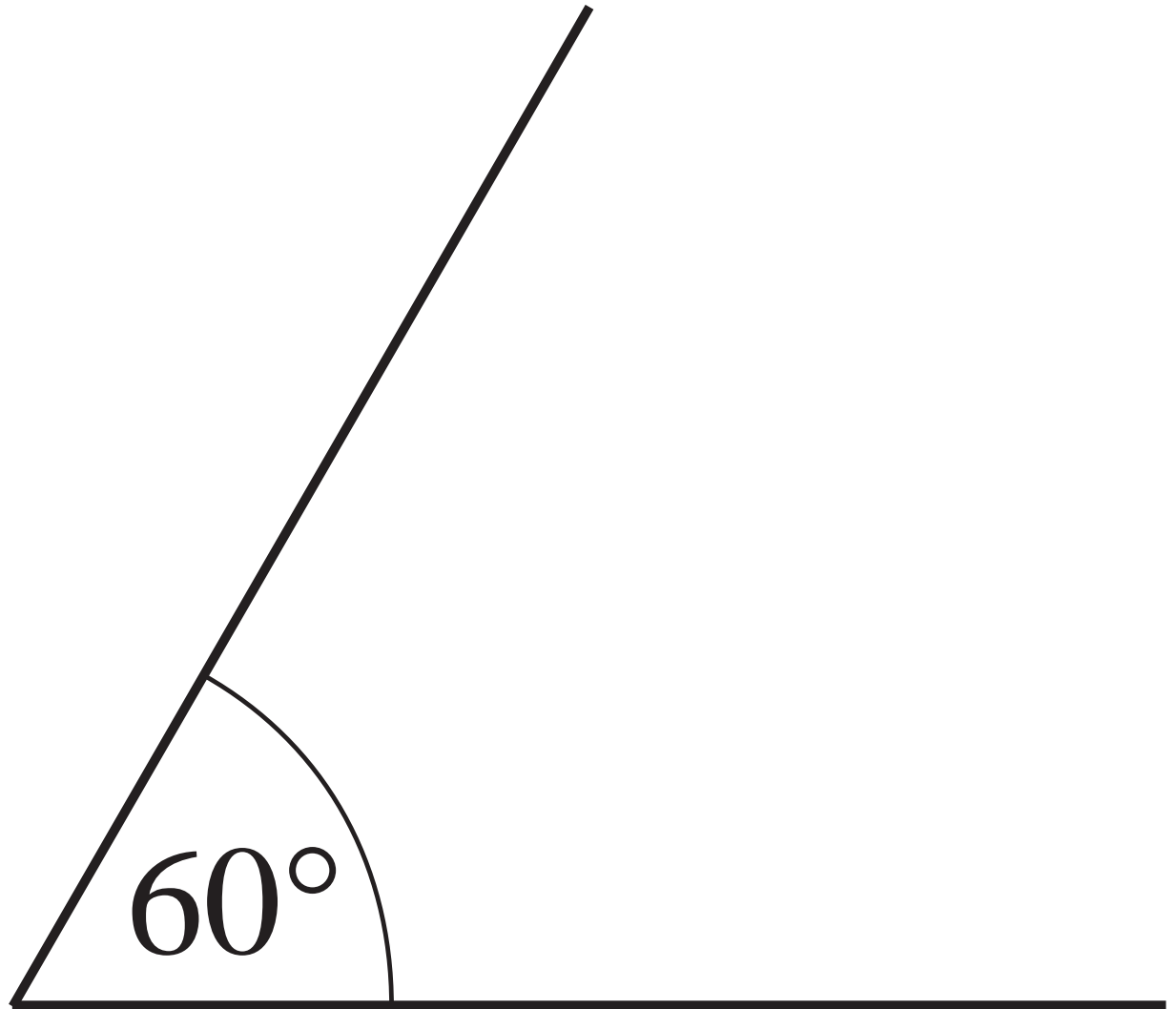




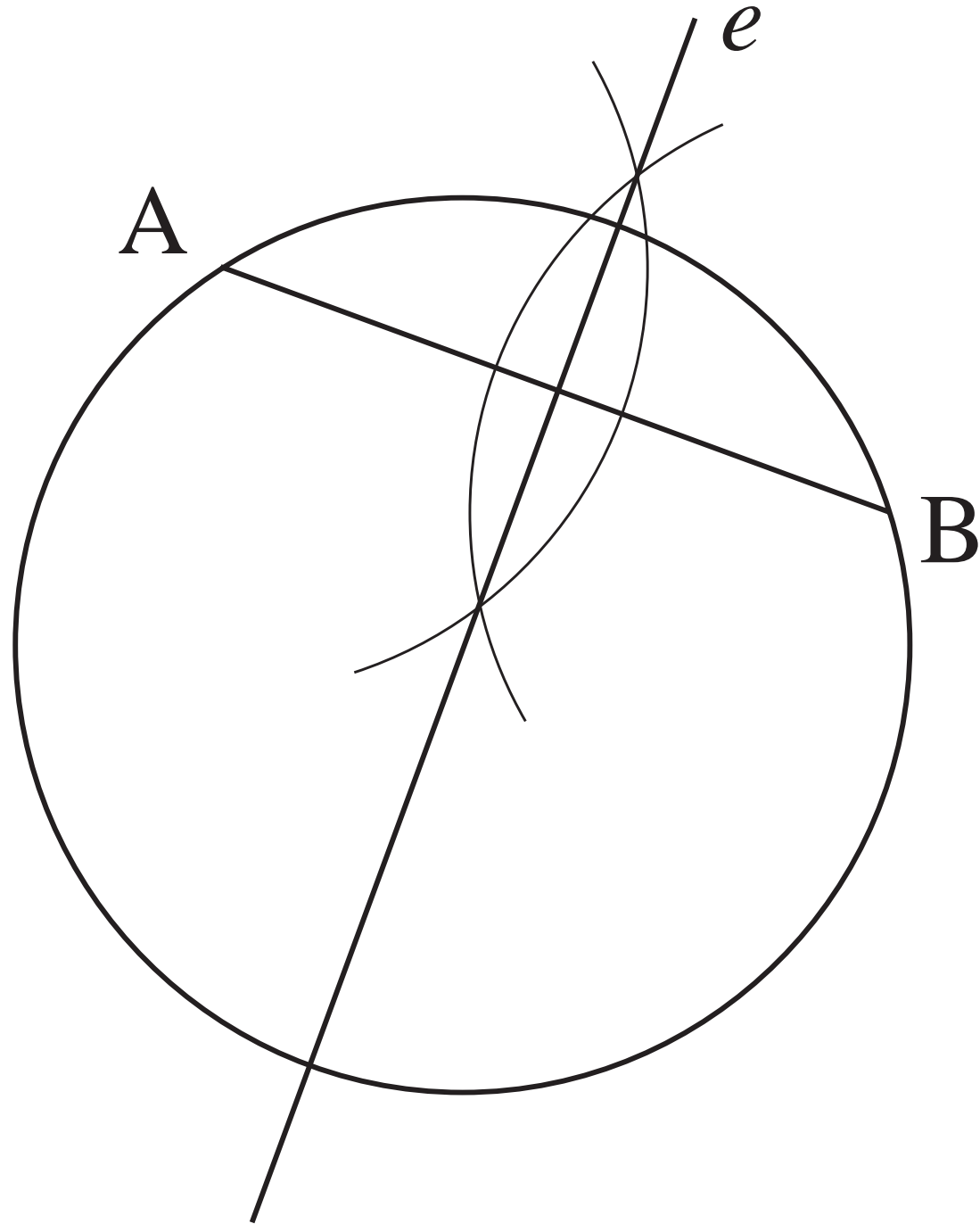


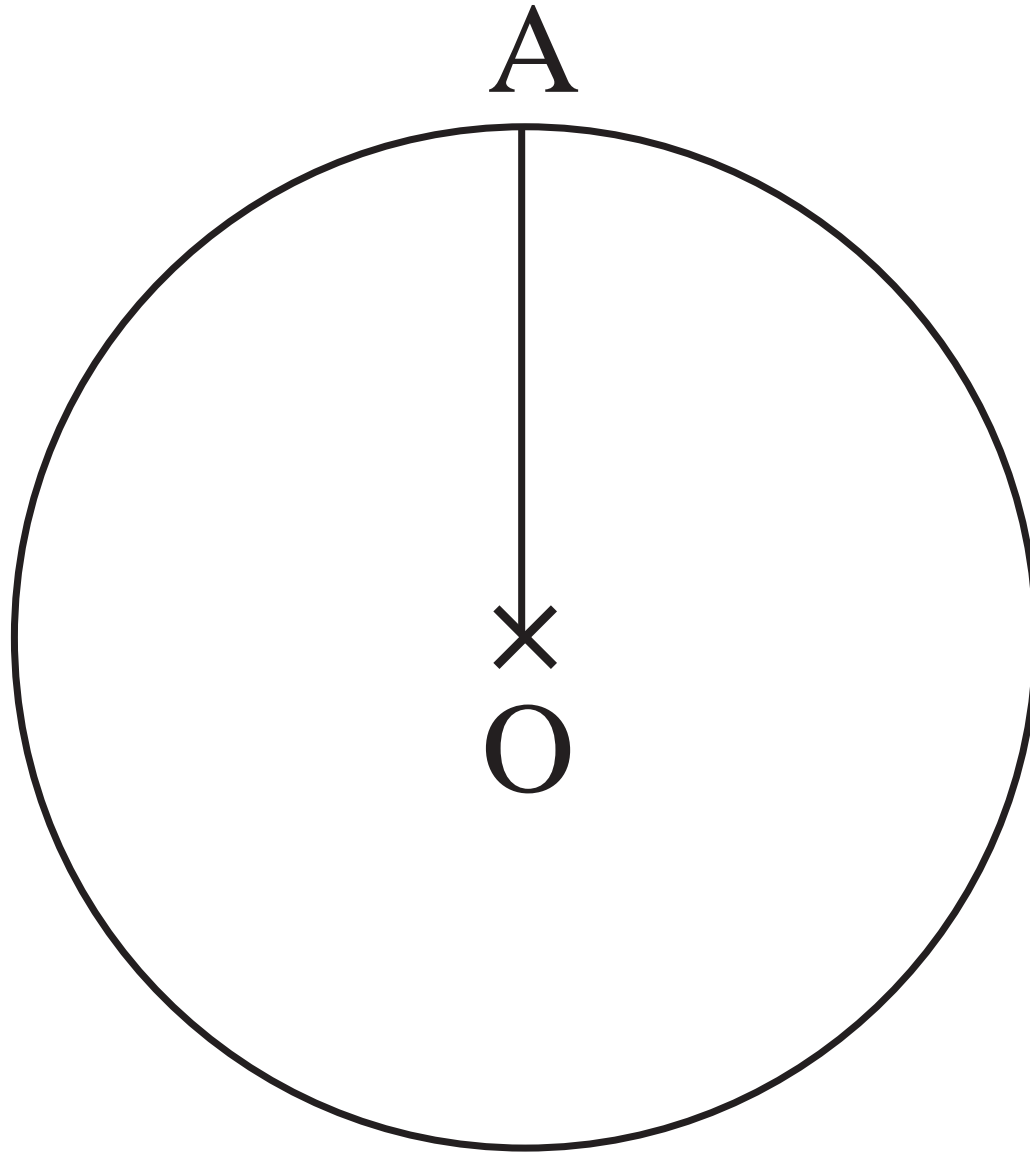


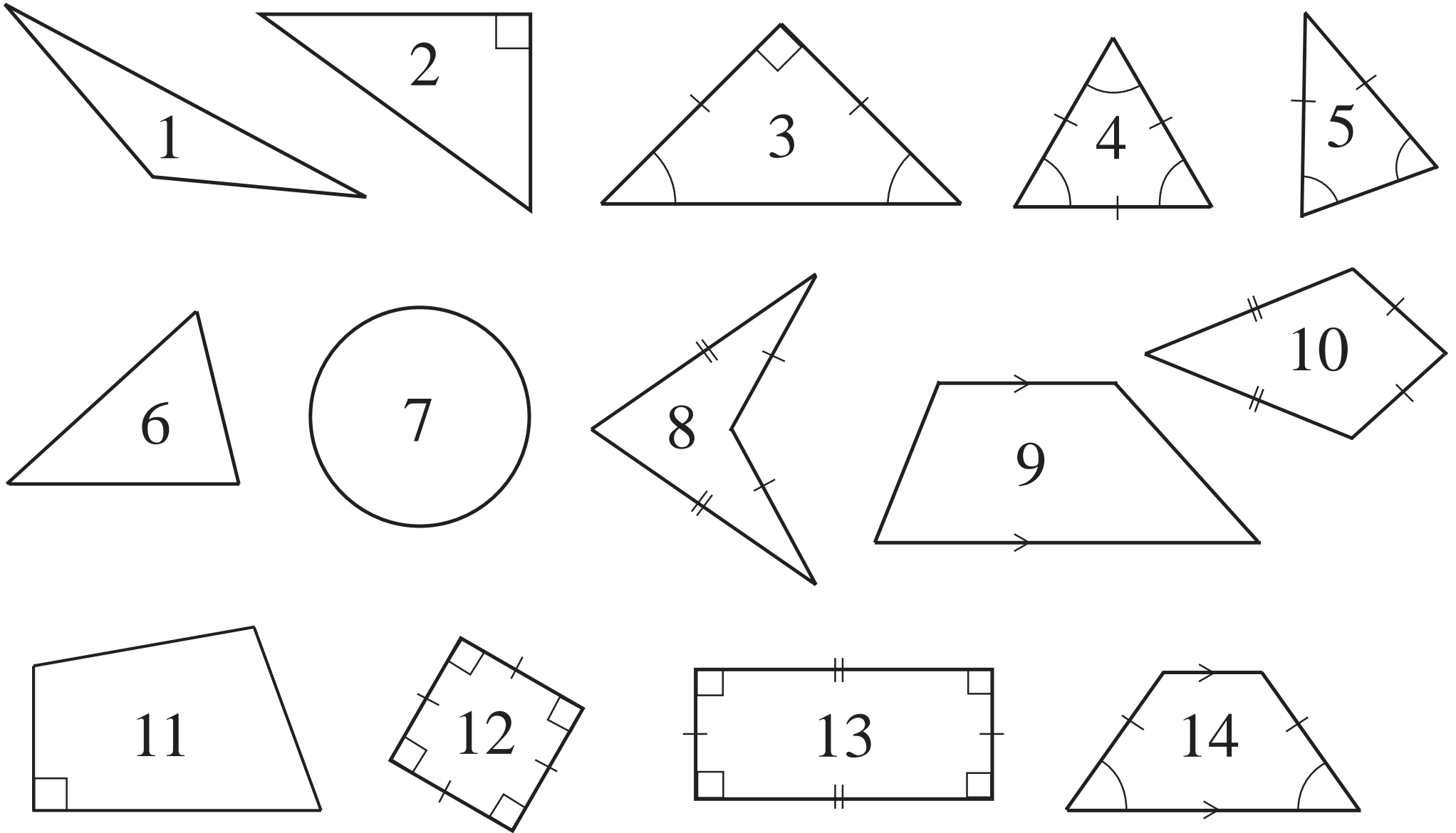
	$\alpha$	$\beta$	$\gamma$	$\alpha^*$	$\beta^*$	$\gamma^*$	$\alpha + \beta + \gamma$	$\alpha^* + \beta^* + \gamma^*$
a)	$40^\circ$							
b)			$65^\circ$					
c)						$120^\circ$		

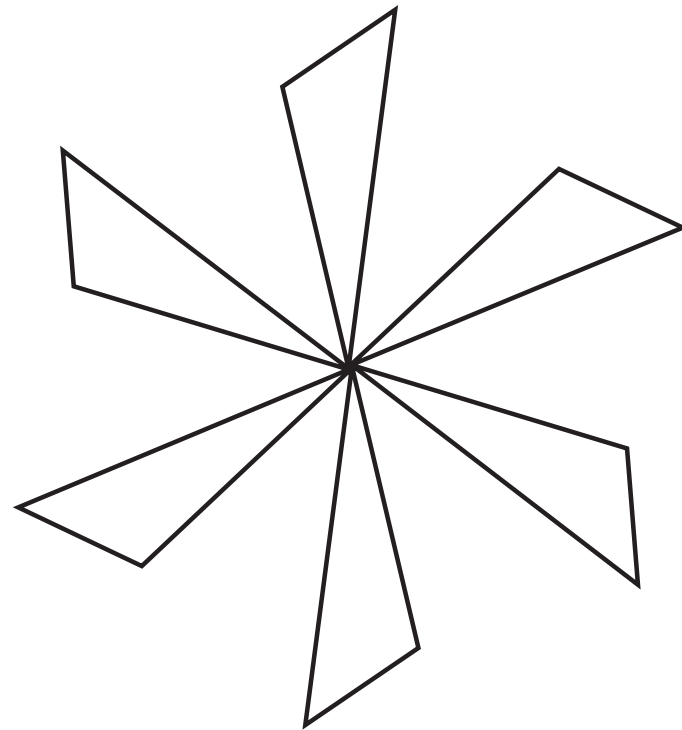
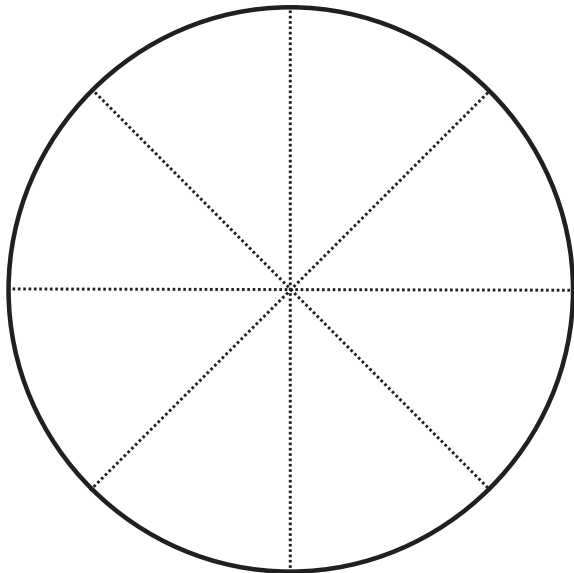
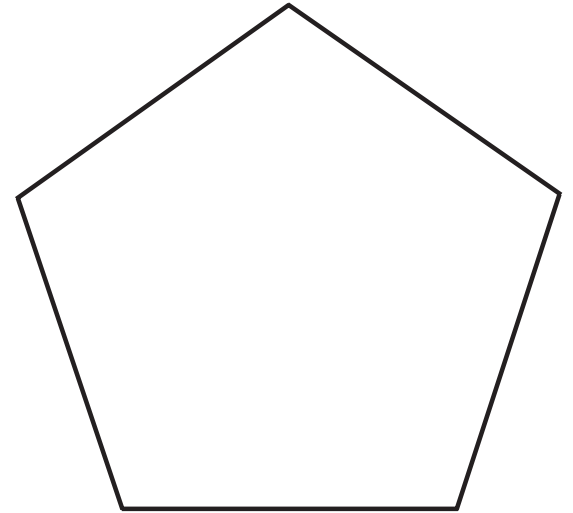
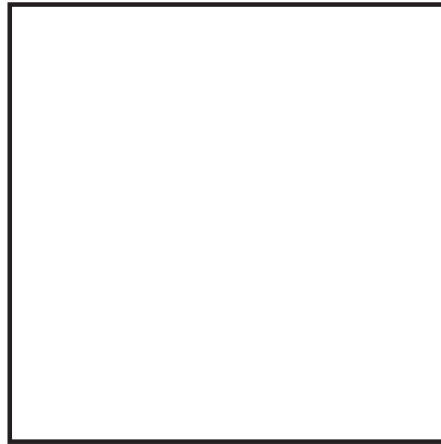
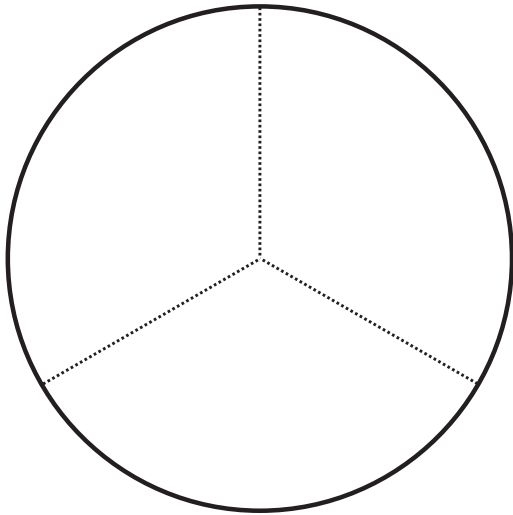


Label appropriately for each question.

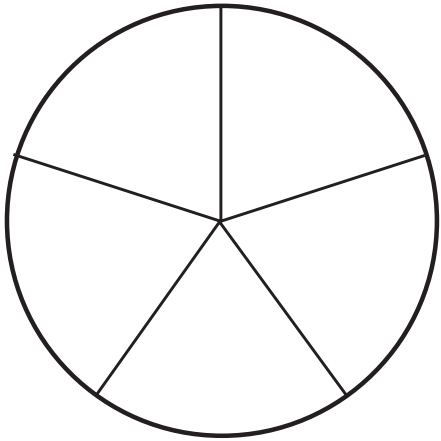




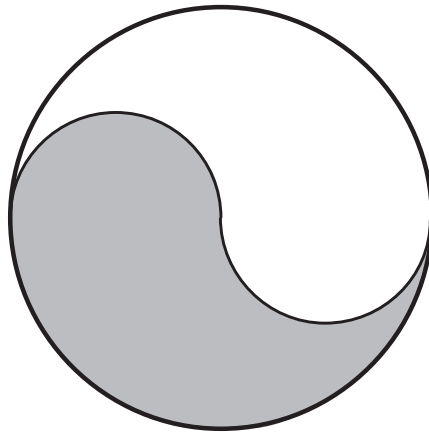




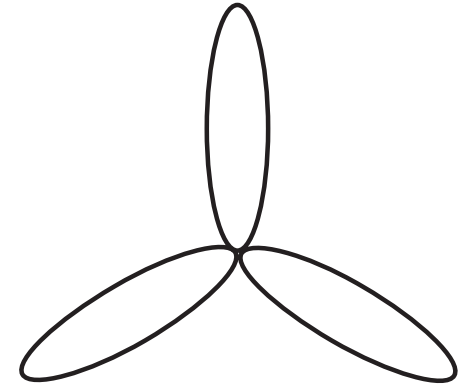
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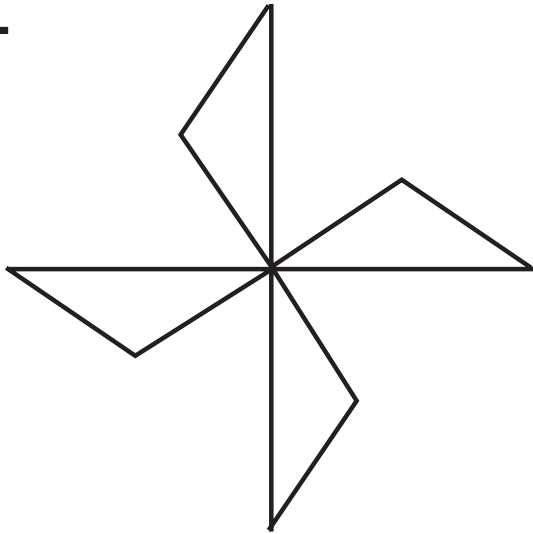
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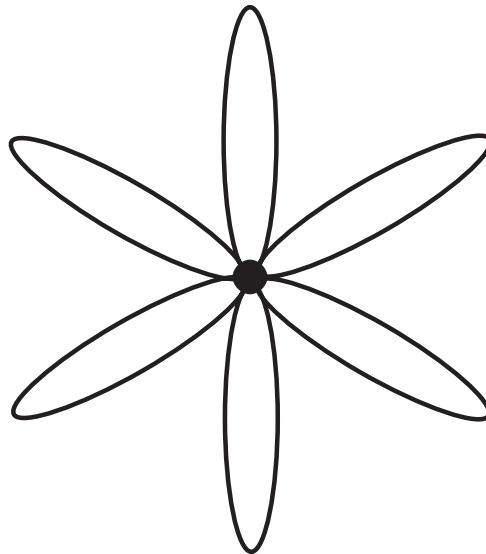
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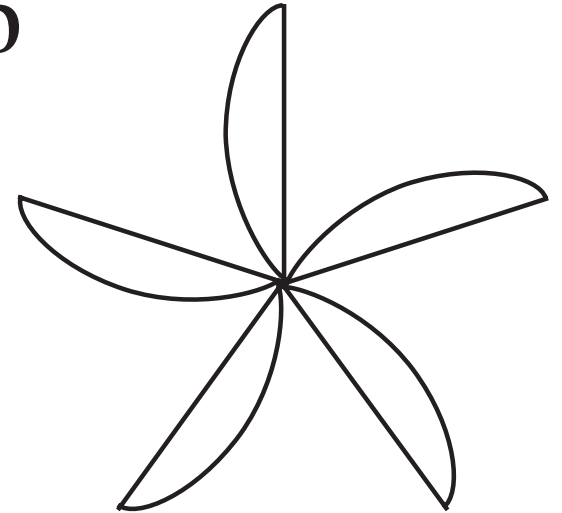
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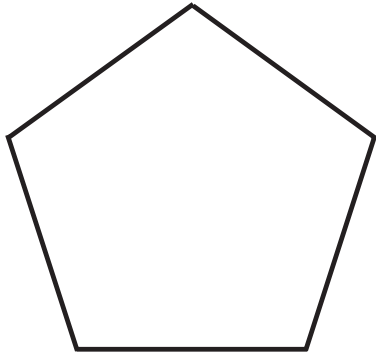
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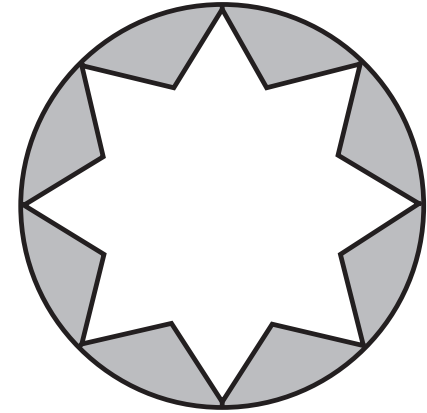
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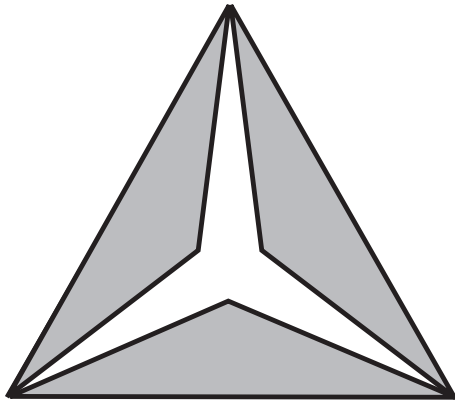
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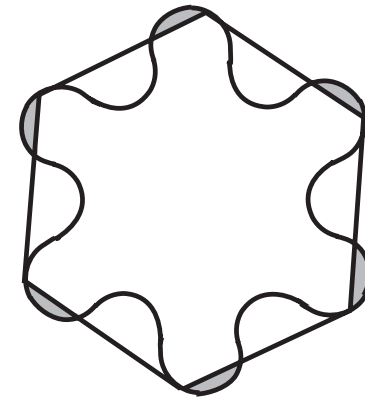
b)



c)

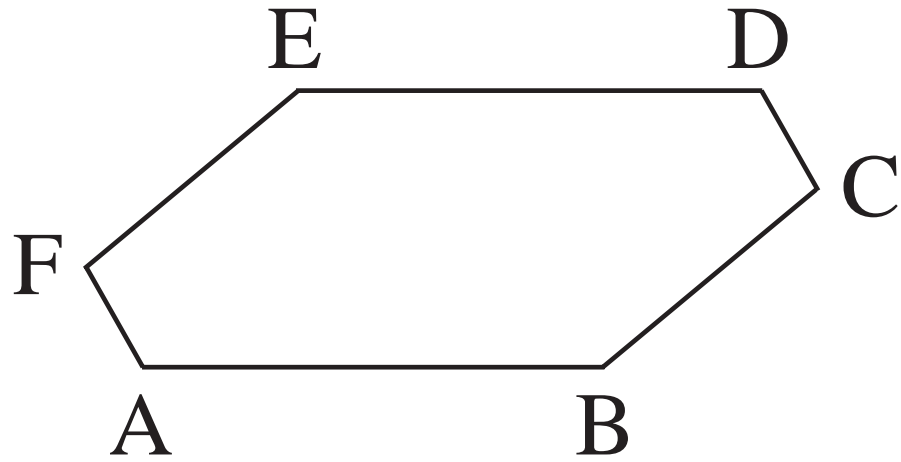


d)

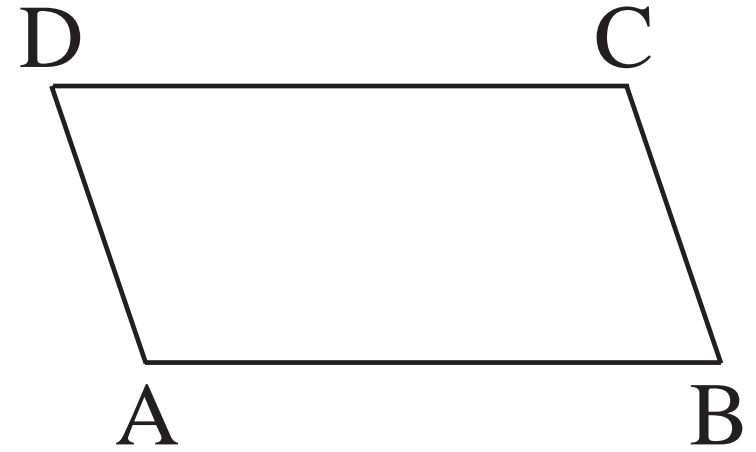




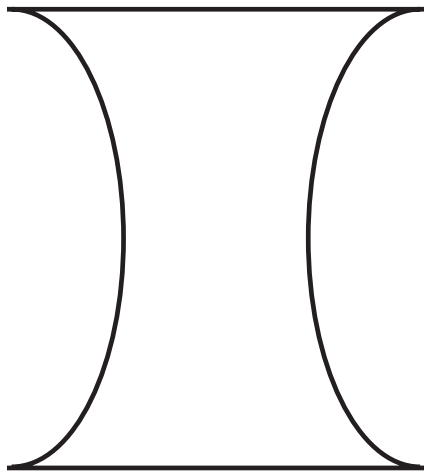
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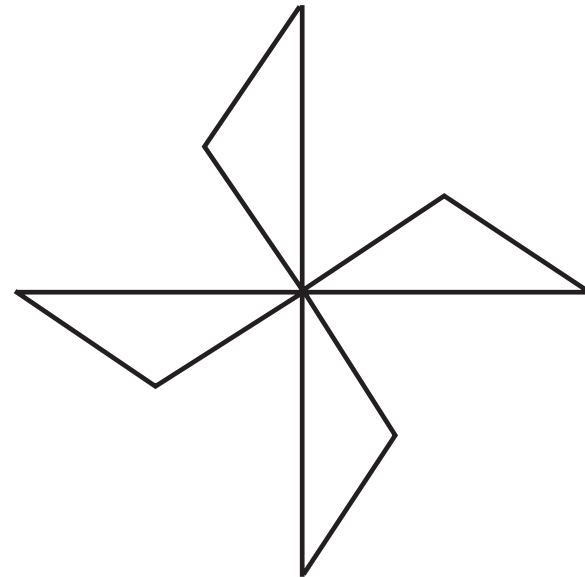
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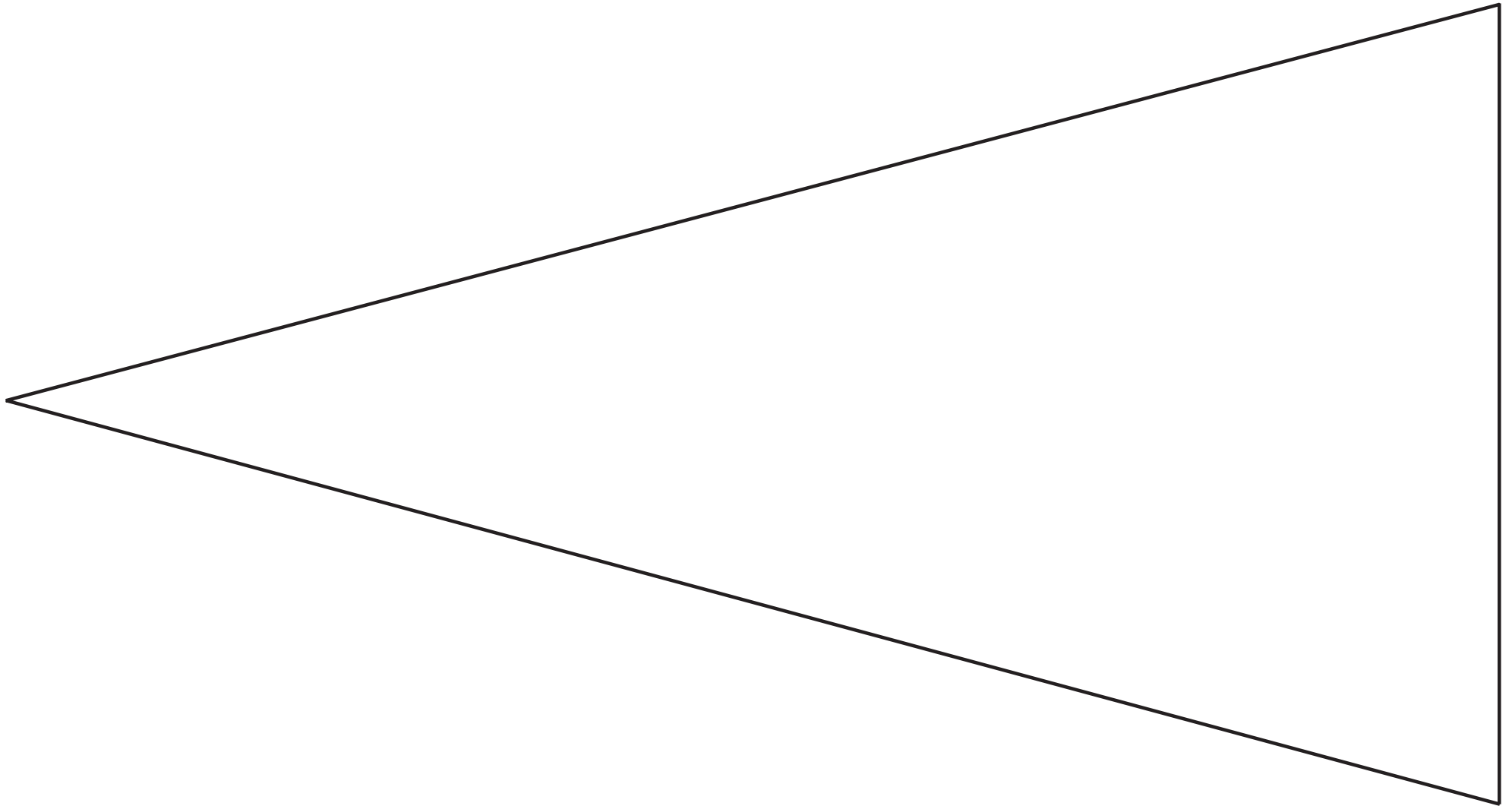


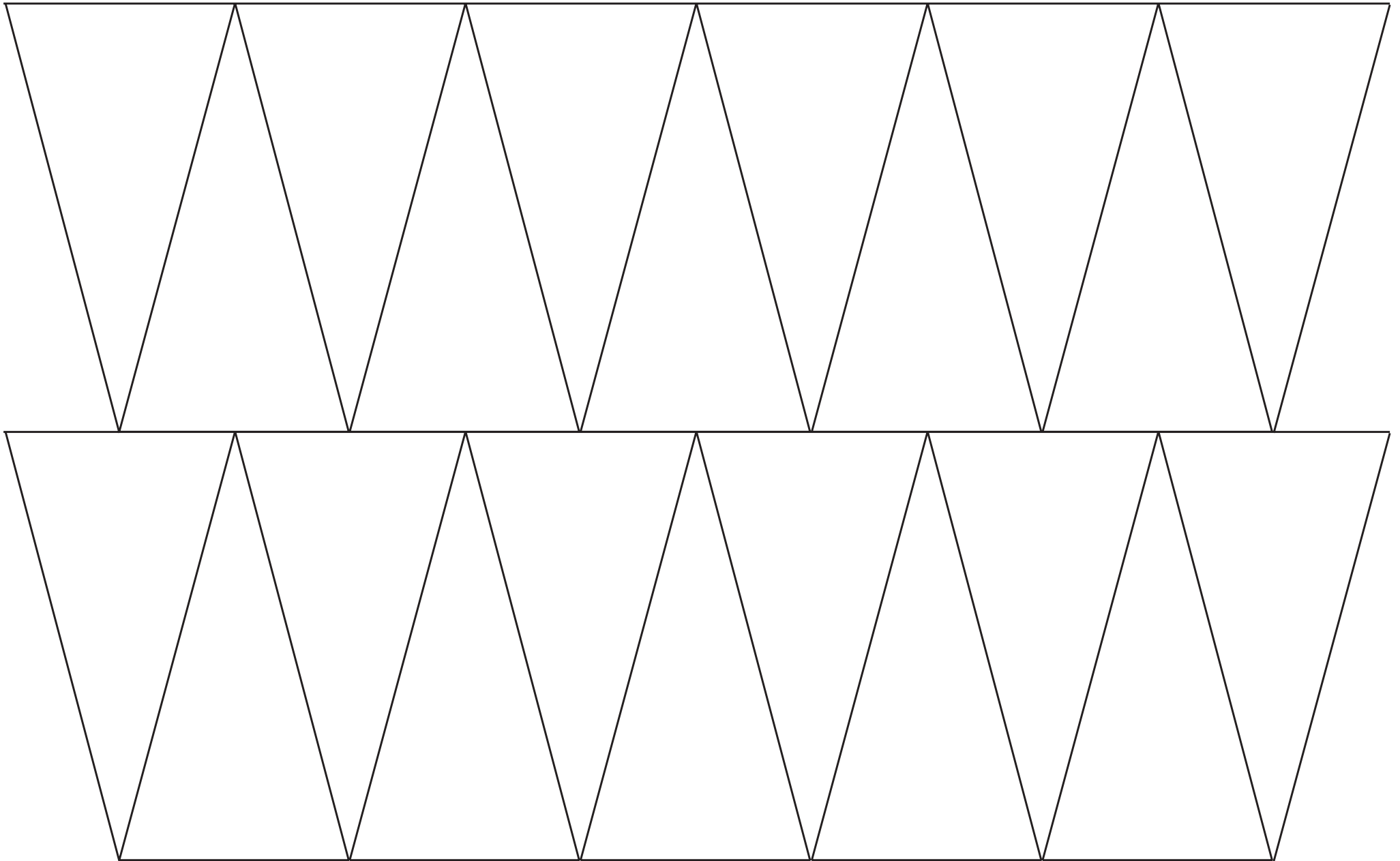
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d)

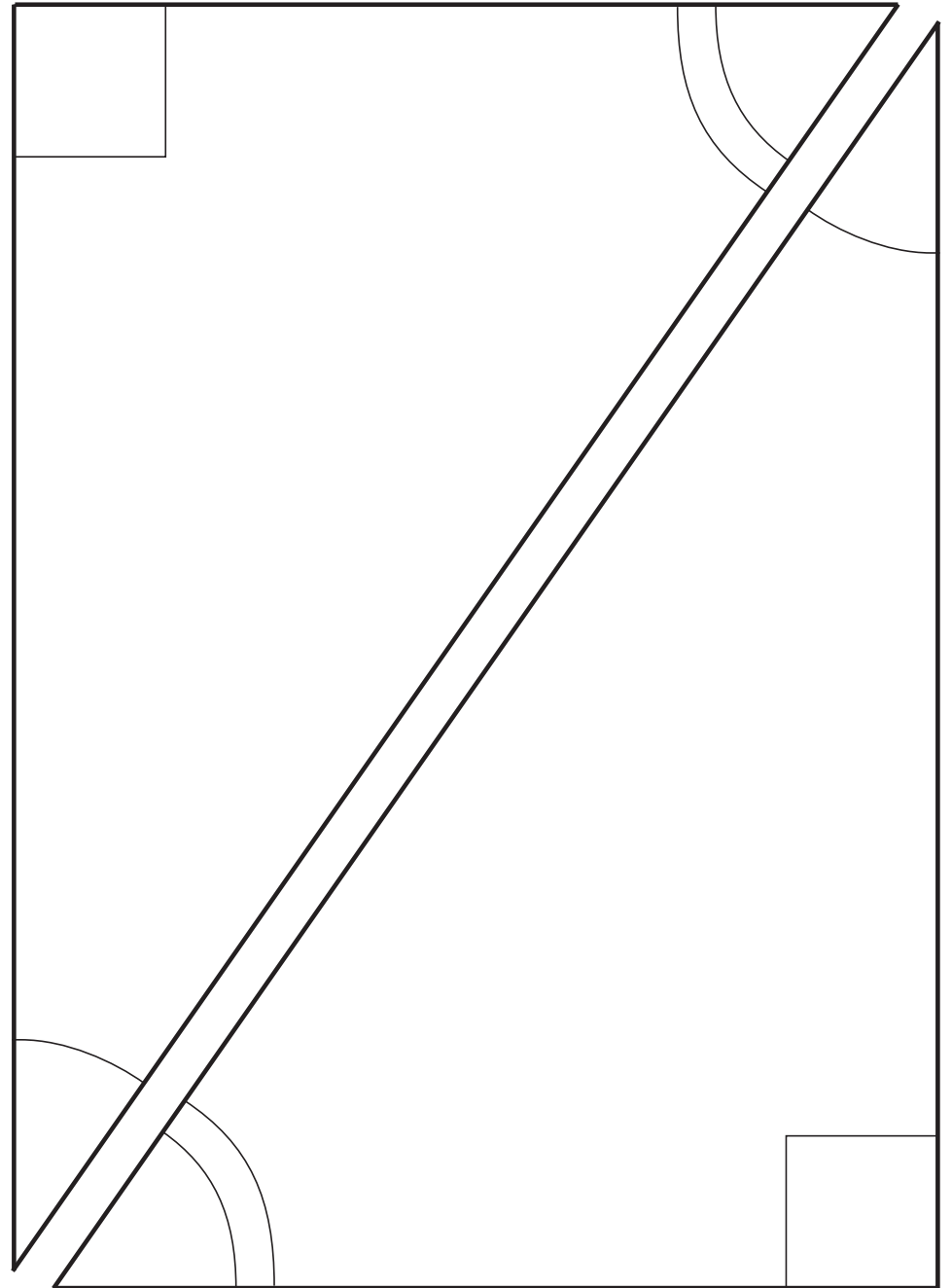
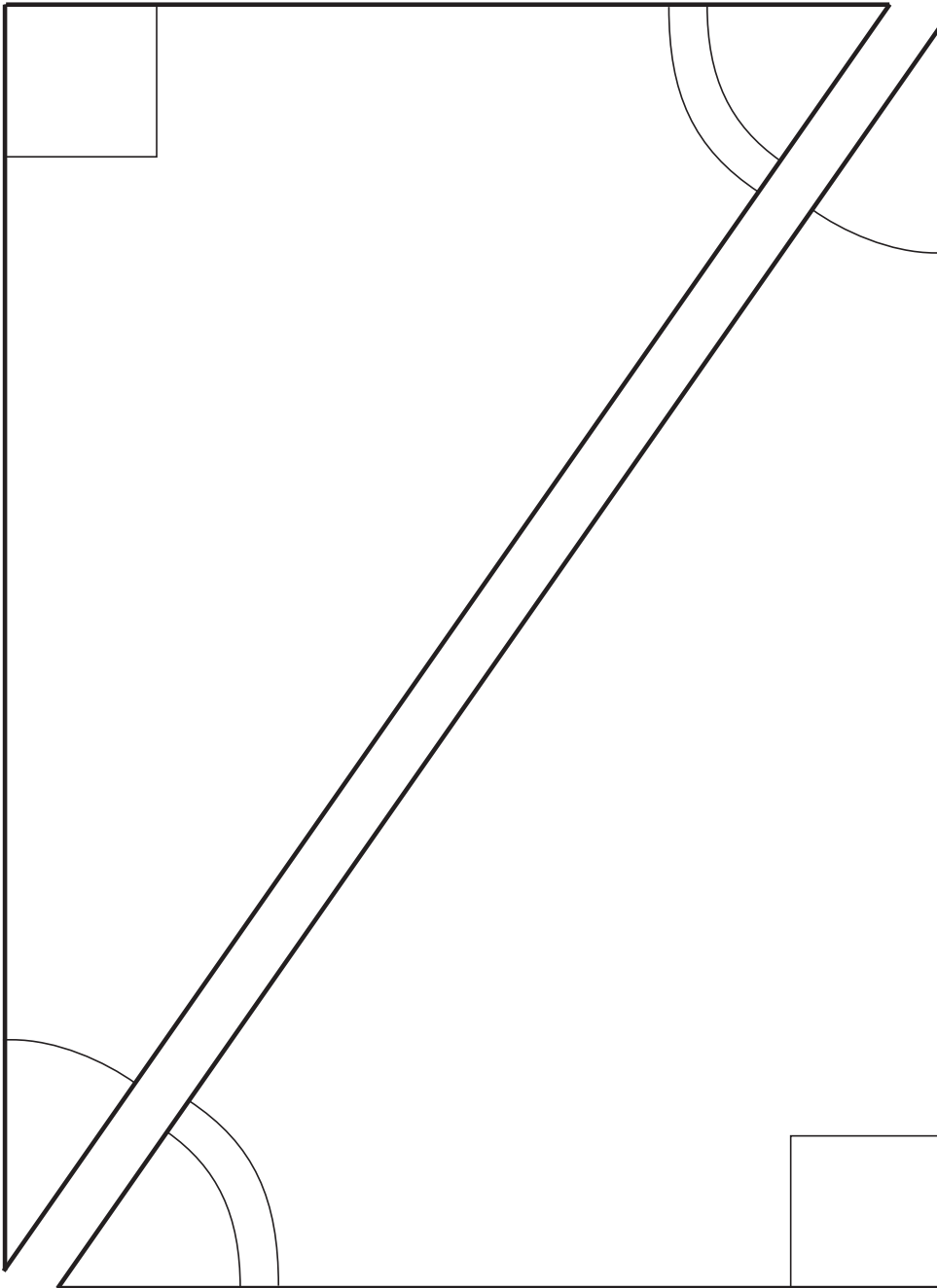




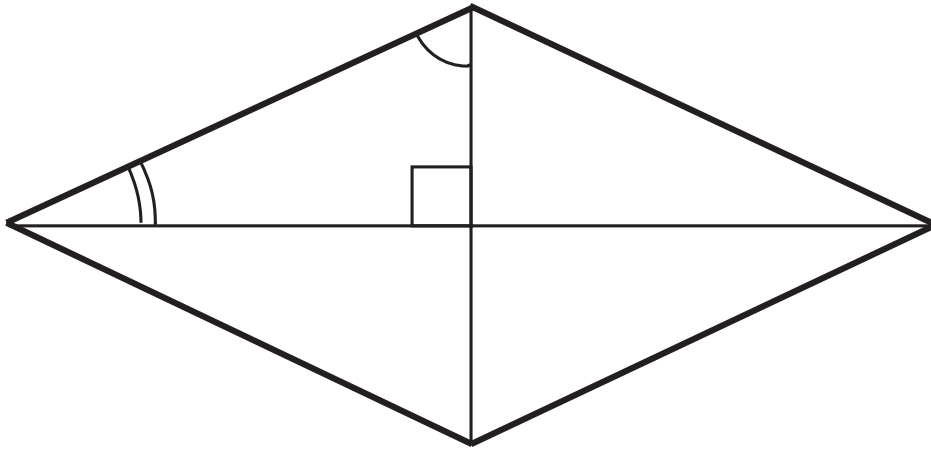


For pupils.

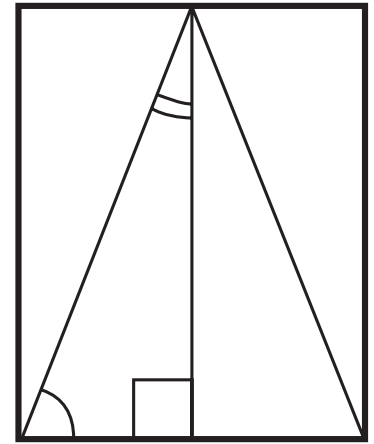
 LP 96/8ii



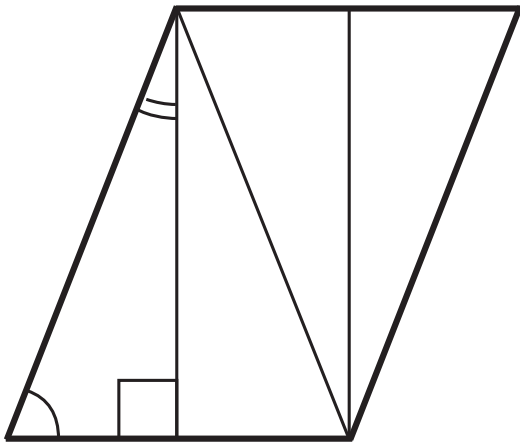
i)



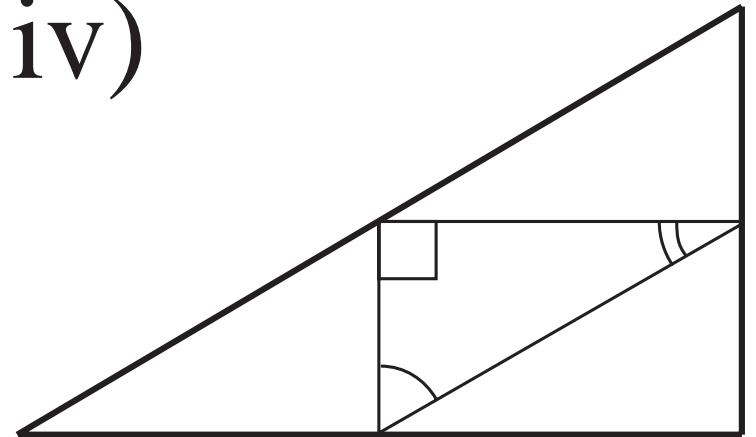
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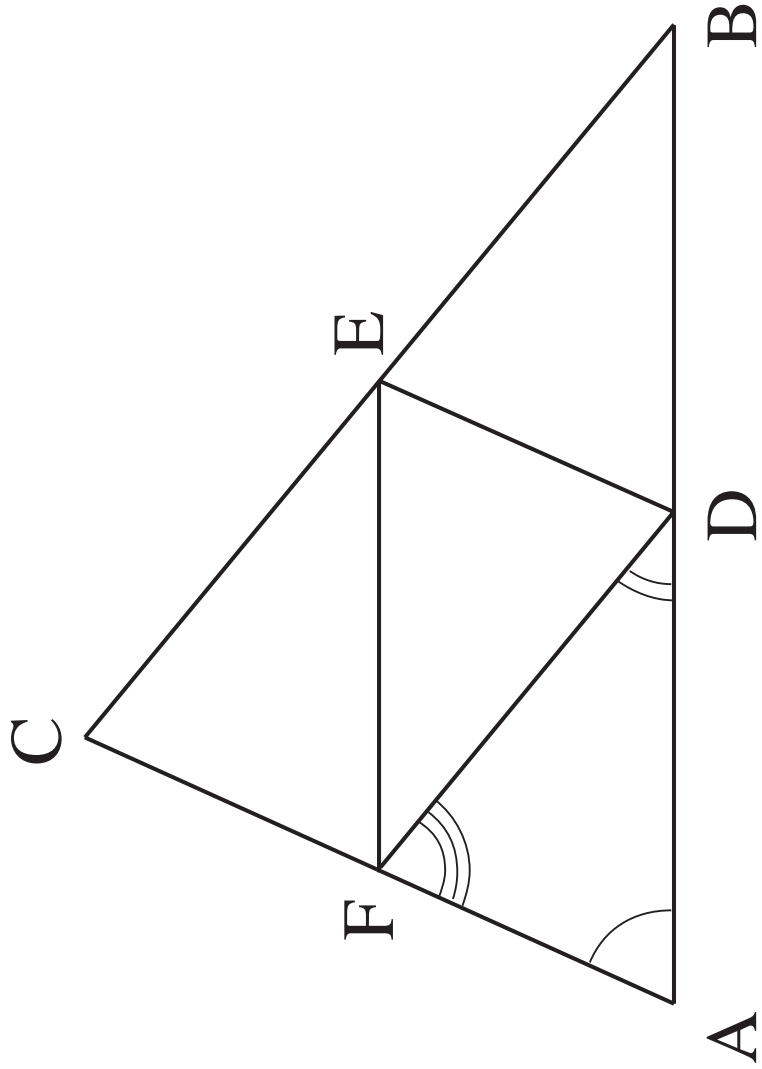


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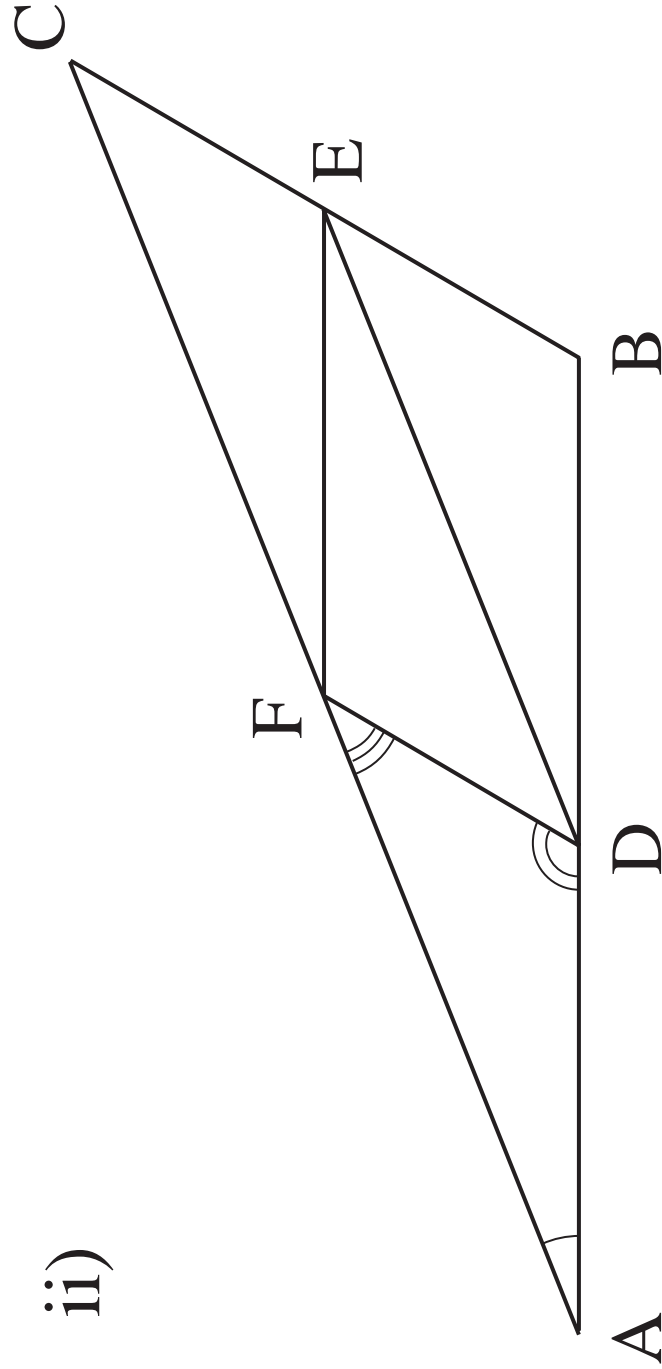


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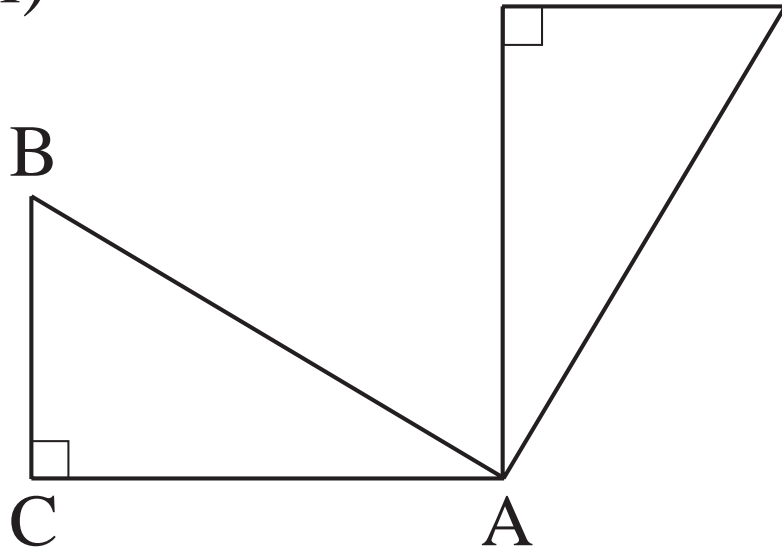


i)

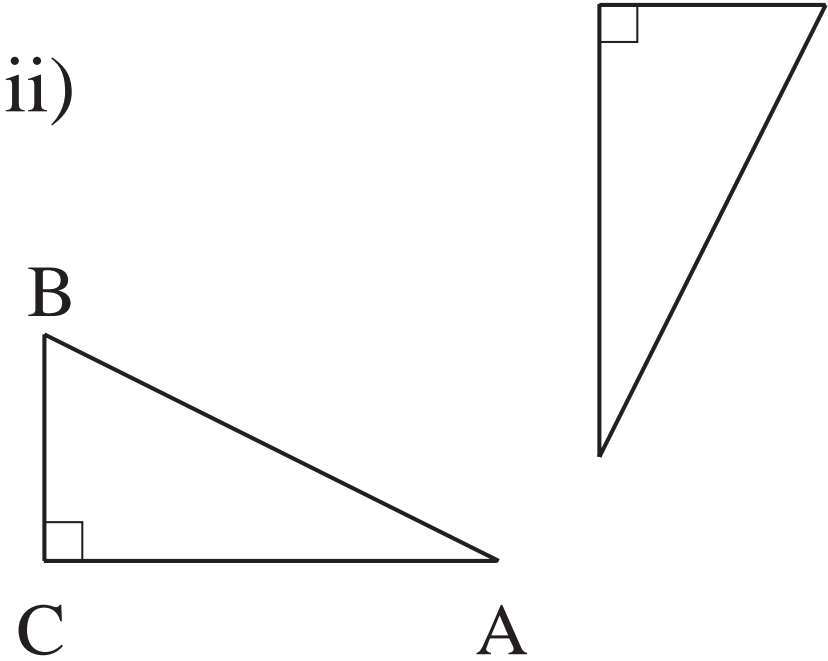


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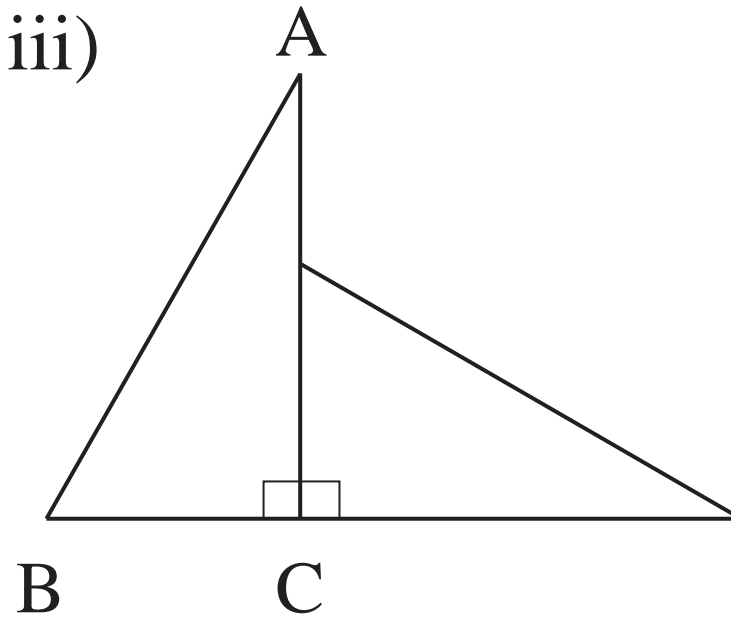
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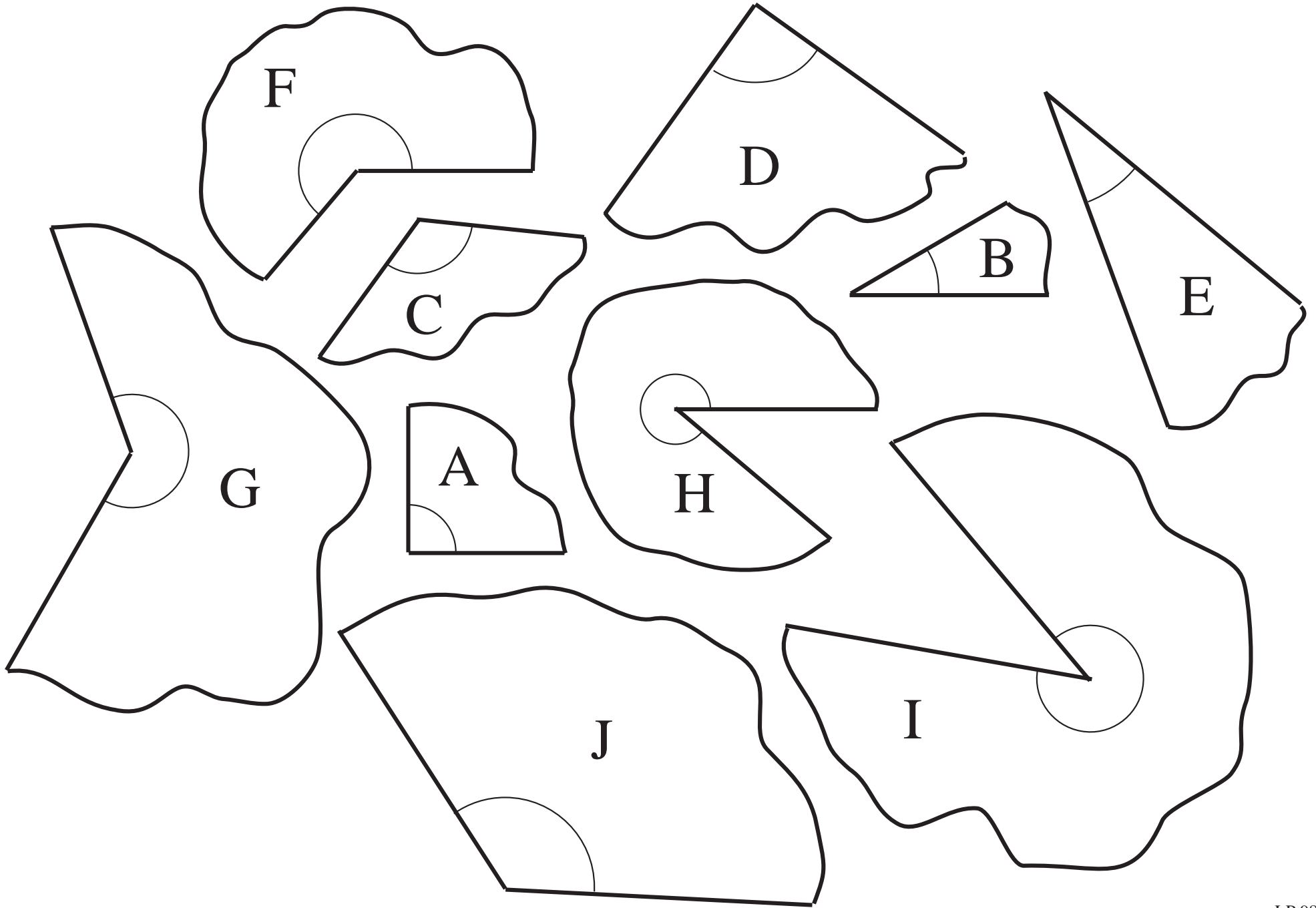


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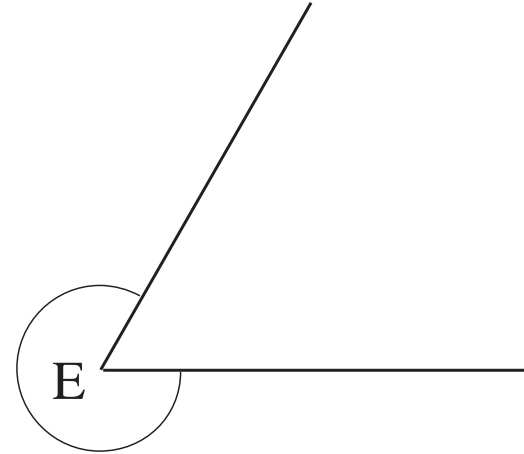
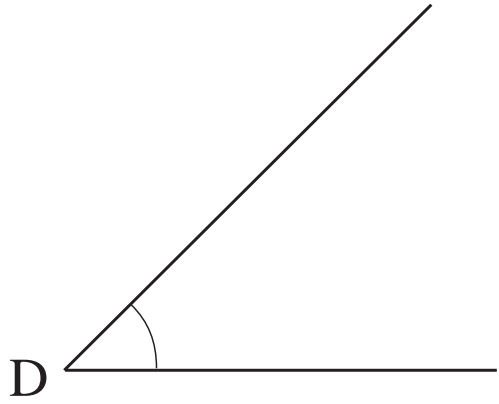
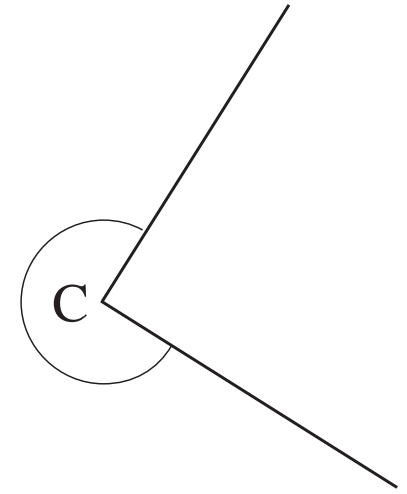
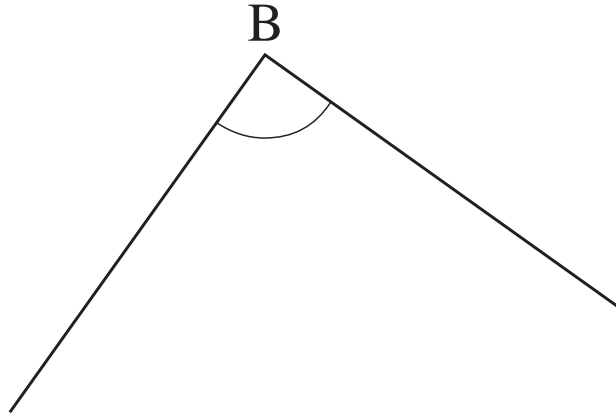
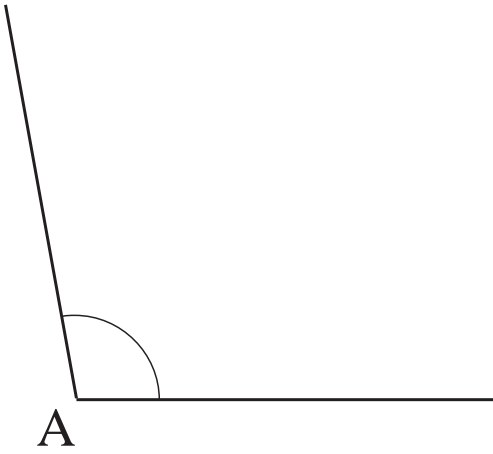


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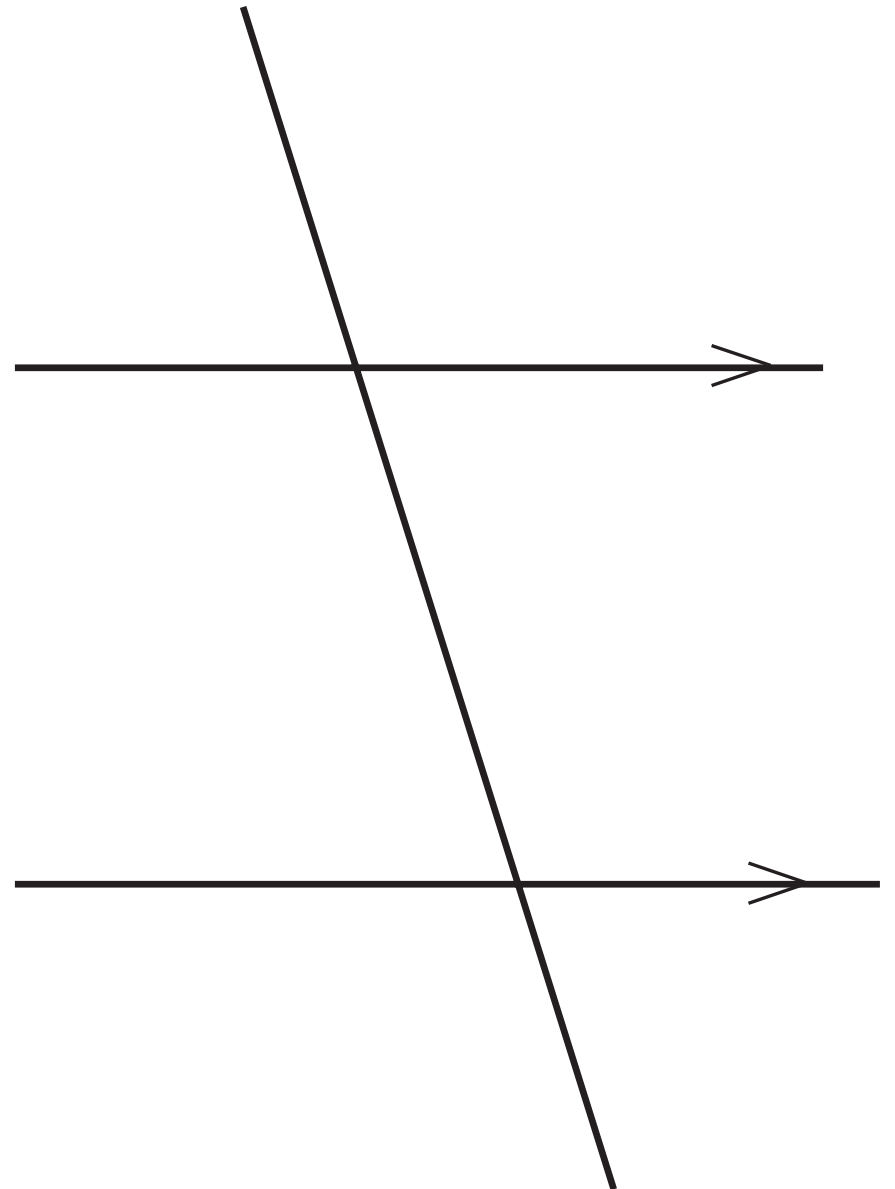
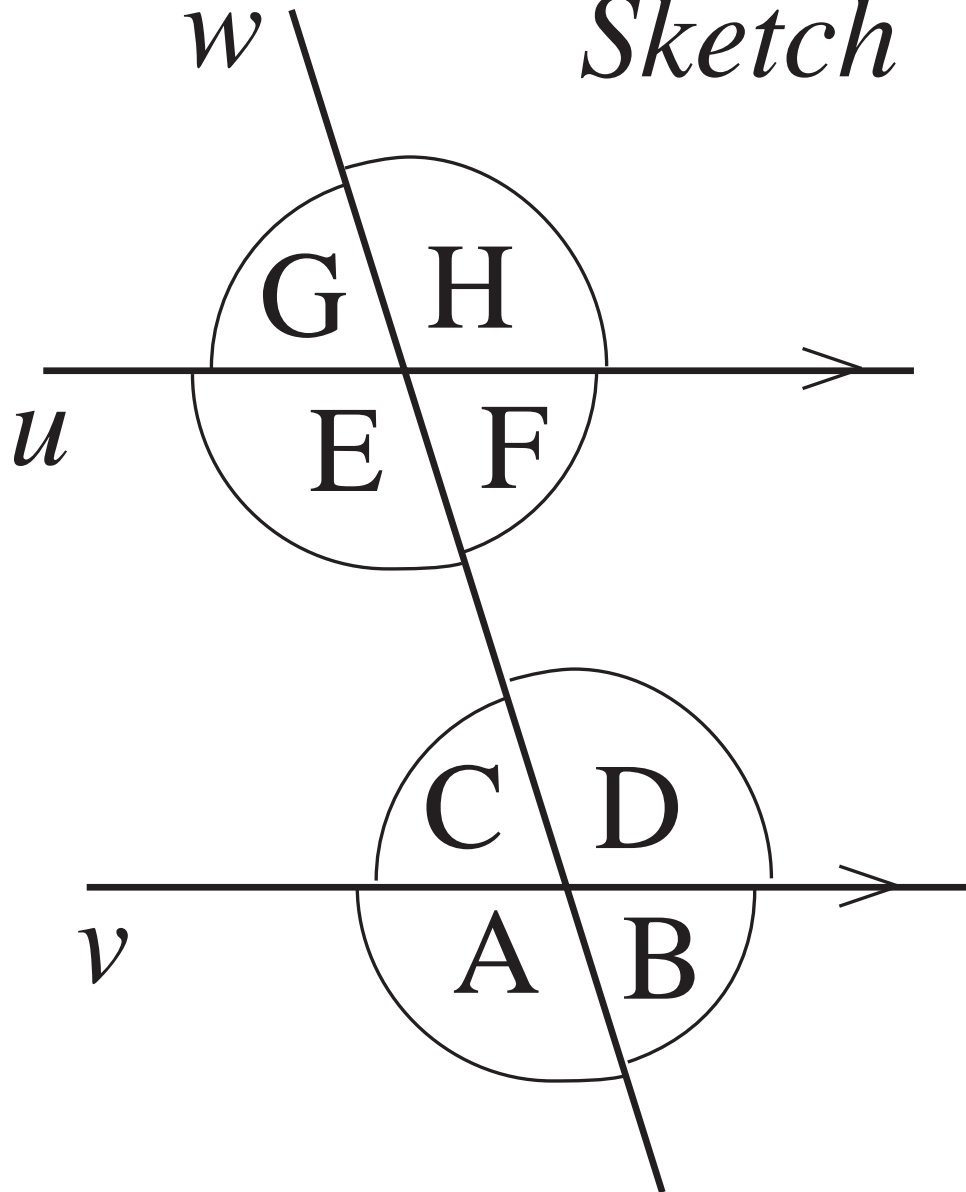




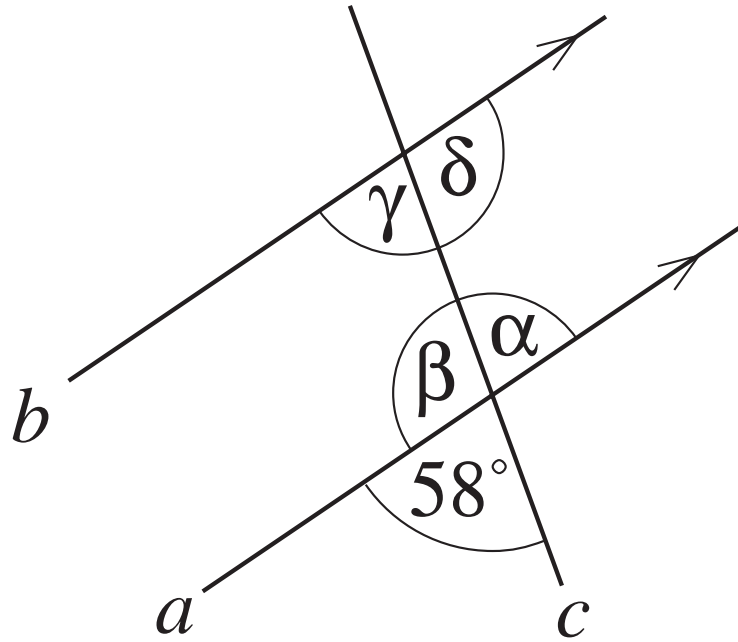




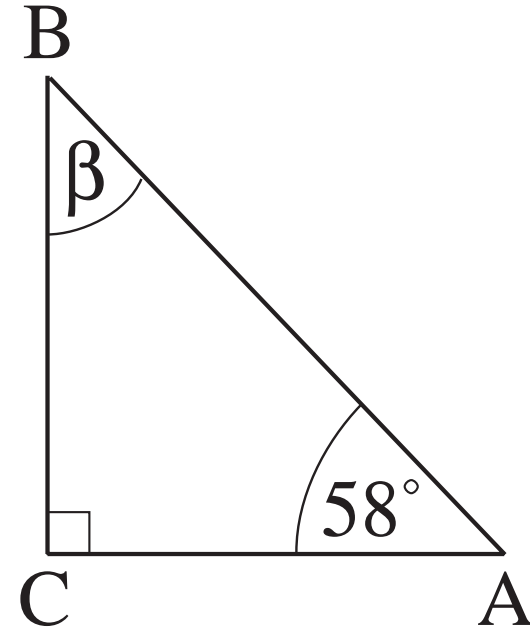
# Sketch



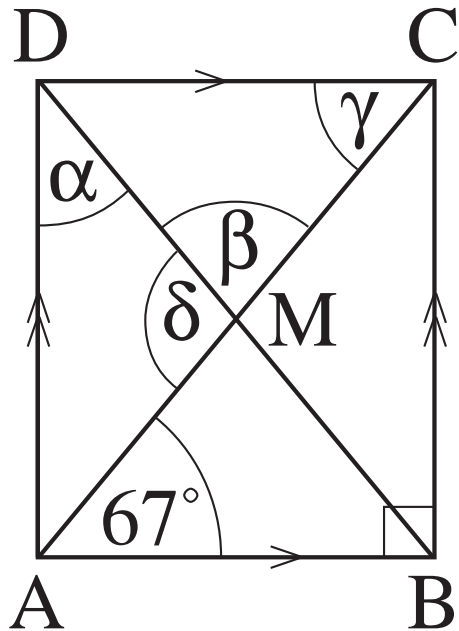
a)



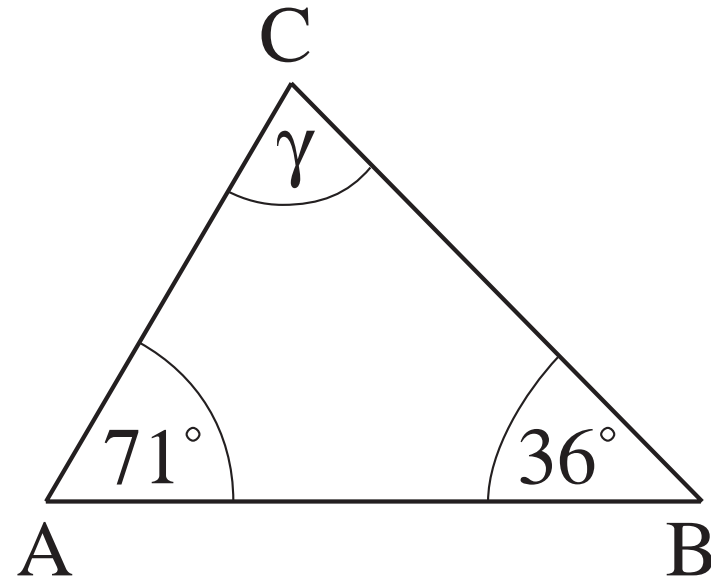
b)



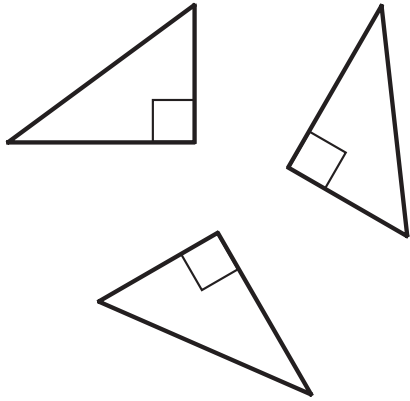
c)



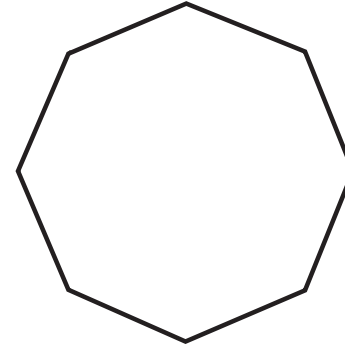
d)



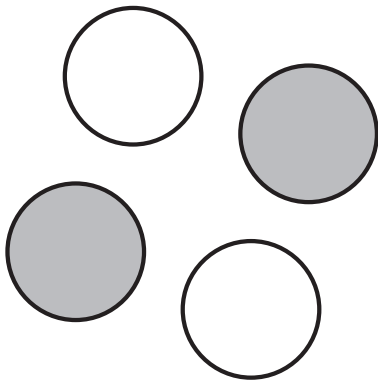
a)



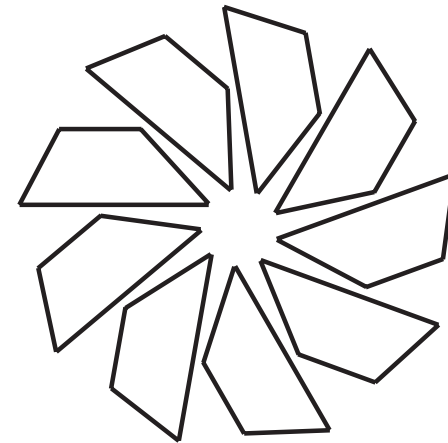
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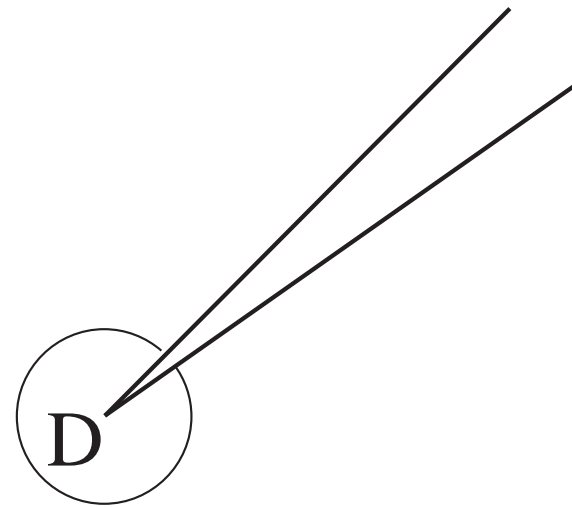
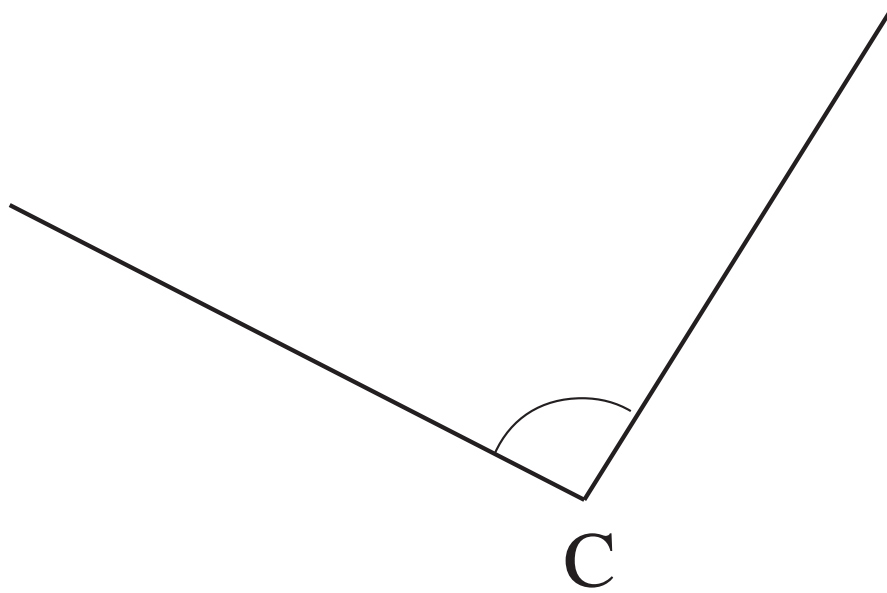
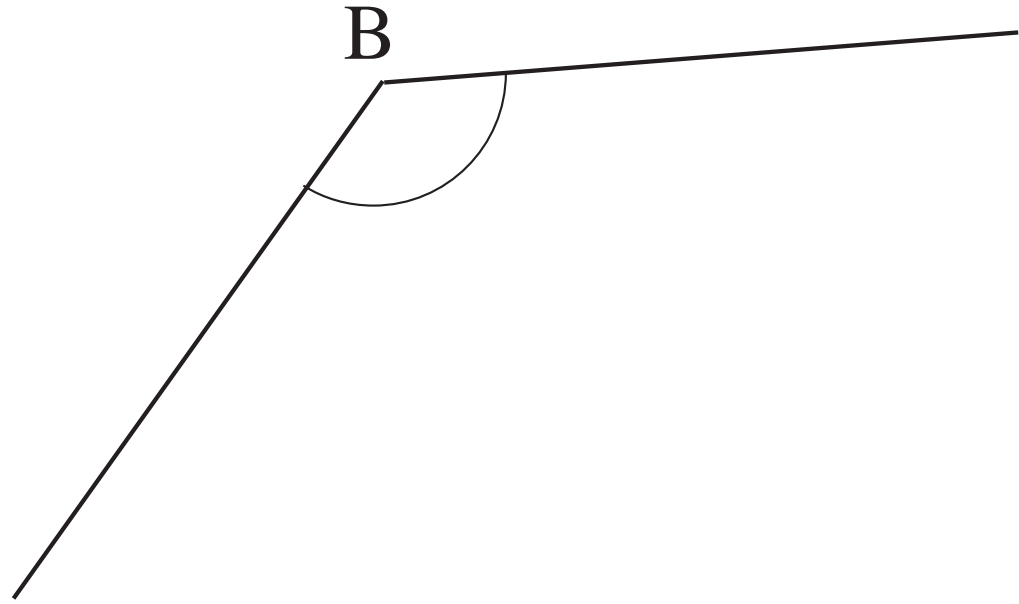
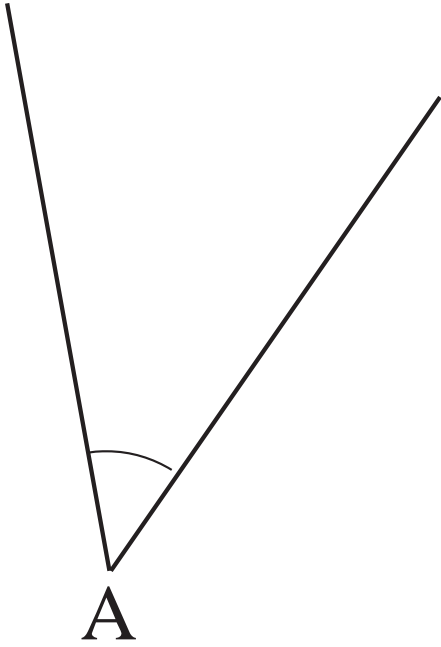


c)

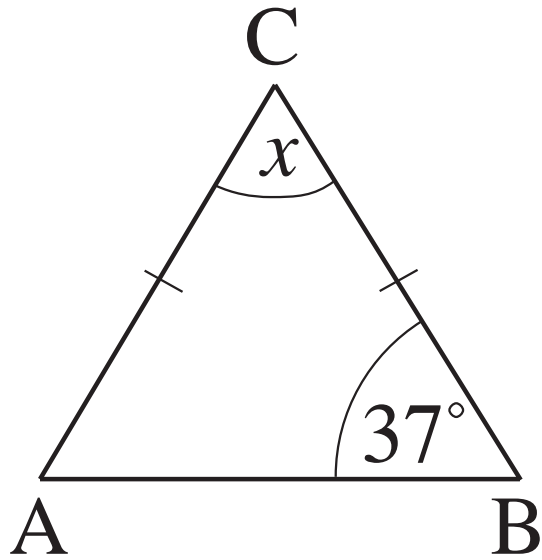


d)

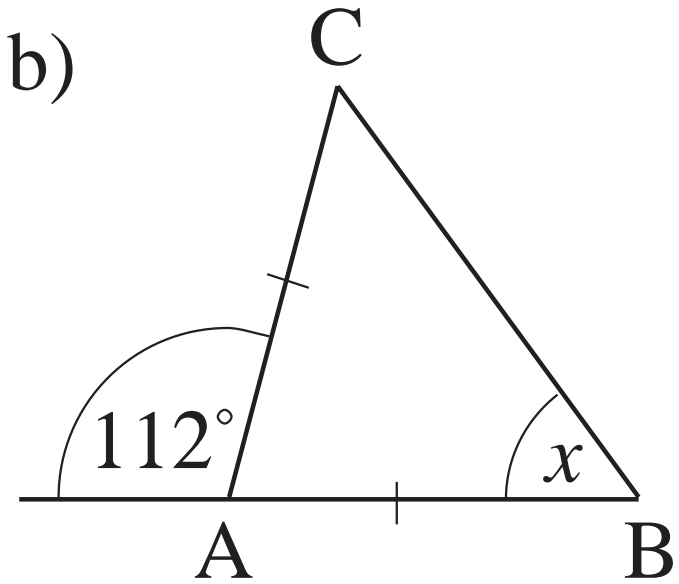




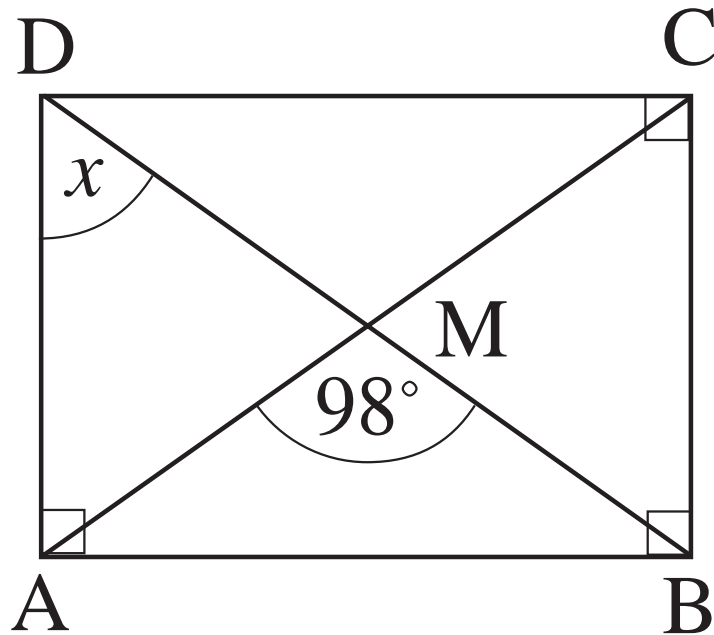
a)



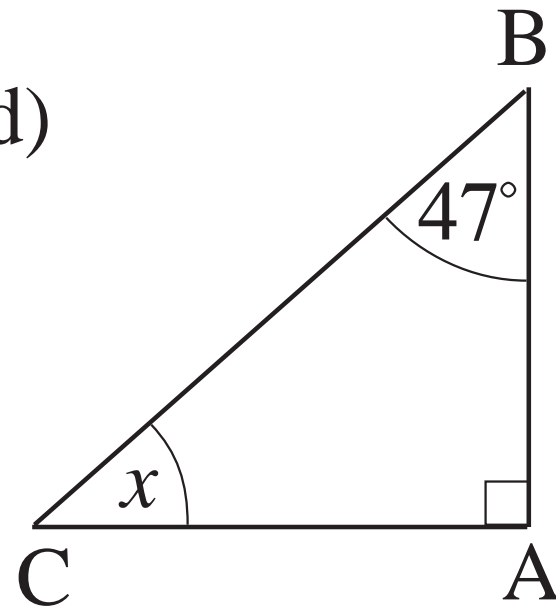
b)



c)



d)



$$(400 \div 100) \times 120$$

$$70\% \text{ of } 80$$

$$120\% \text{ of } 400$$

$$400 + (20\% \text{ of } 400)$$

$$80 - 80 \times 0.3$$

$$80\% \text{ of } 70$$

$$400 \times 1.2$$

$$70 \times \frac{4}{5}$$

$$8 \times 0.7$$

a)  $45.8 \text{ kg} = \boxed{\phantom{000000}} \text{ g}; 718 \text{ g} = \boxed{\phantom{000000}} \text{ kg};$

$5.1 \text{ t} = \boxed{\phantom{000000}} \text{ kg}$

b)  $3.4 \text{ litres} = \boxed{\phantom{000000}} \text{ cl} = \boxed{\phantom{000000}} \text{ ml};$

$216 \text{ cl} = \boxed{\phantom{000000}} \text{ litres}; 470 \text{ ml} = \boxed{\phantom{000000}} \text{ litres}$

c)  $2.9 \text{ km} = \boxed{\phantom{000000}} \text{ m}; 53 \text{ cm} = \boxed{\phantom{000000}} \text{ m};$

$4280 \text{ mm} = \boxed{\phantom{000000}} \text{ m}$

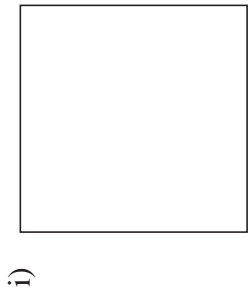
d)  $233 \text{ min} = \boxed{\phantom{000000}} \text{ hr}; 10.4 \text{ hr} = \boxed{\phantom{000000}} \text{ min};$

$45 \text{ sec} = \boxed{\phantom{000000}} \text{ min}$

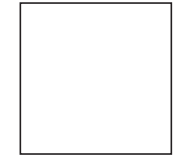


<b>Units of Measure</b>	
<b>Length</b>	
1 inch (1") = 25.4 mm	1 cm ≈
1 foot (1') = 12" = 30.48 cm	1 m ≈
1 yard (1 yd) = 3' = 914.4 mm	1 m ≈
1 mile = 1.609 km	1 km ≈
1 Nautical mile = 1.852 km	1 km ≈
<b>Area</b>	
1 square inch ≈ 6.54 cm <sup>2</sup>	1 cm <sup>2</sup> ≈
1 square foot ≈ 929 cm <sup>2</sup>	1 m <sup>2</sup> ≈
1 square yard ≈ 0.836 m <sup>2</sup>	1 m <sup>2</sup> ≈
1 acre ≈ 0.4047 hectares (ha)	1 ha ≈
1 hectare = 10 000 m <sup>2</sup>	1 km <sup>2</sup> =
<b>Mass (weight)</b>	
1 grain (1 gr) ≈ 0.06481 g	1 g ≈
1 ounce (1 oz) ≈ 28.33 g	1 kg ≈
1 pound (1 lb) ≈ 0.4535 kg	1 kg ≈
1 hundredweight (1 cwt) ≈ 50.792 kg	1 tonne (t) ≈
<b>Capacity</b>	
1 pint (1 pt) ≈ 0.5682 litre	1 litre ≈
1 gallon (1 gal) ≈ 4.5455 litres	1 litre ≈
<b>Volume</b>	
1 cubic inch ≈ 16.387 cm <sup>3</sup>	1 cm <sup>3</sup> ≈
1 cubic foot ≈ 0.02832 m <sup>3</sup>	1 m <sup>3</sup> ≈
1 cubic yard ≈ 0.764 m <sup>3</sup>	1 m <sup>3</sup> ≈
<b>Temperature</b>	
Fahrenheit → Celsius	Celsius → Fahrenheit
$x^{\circ}\text{F} = (x - 32) \times \frac{5}{9}$ ( $^{\circ}\text{C}$ )	$x^{\circ}\text{C} =$

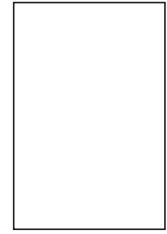
a) Squares and rectangles



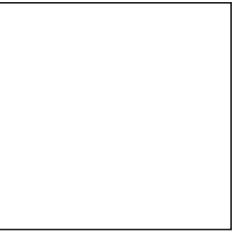
i)



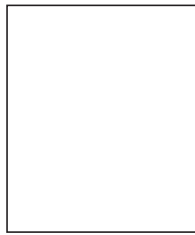
ii)



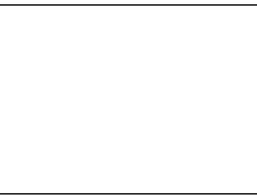
iii)



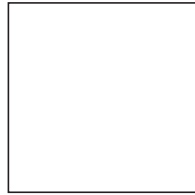
iv)



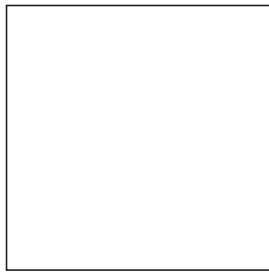
v)



vi)

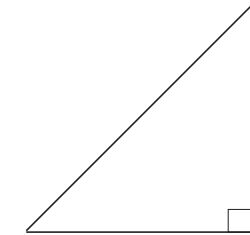


vii)

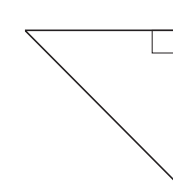


viii)

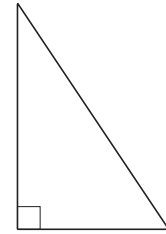
d) Right-angled Triangles



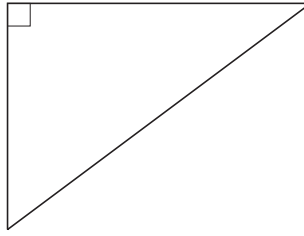
i)



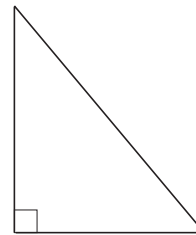
ii)



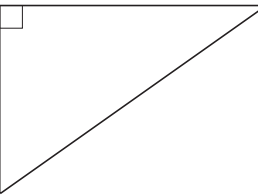
iii)



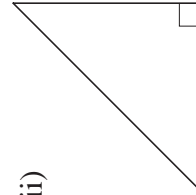
iv)



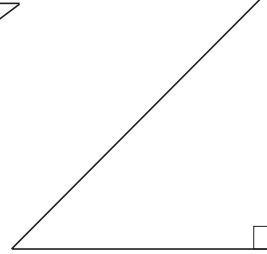
v)



vi)

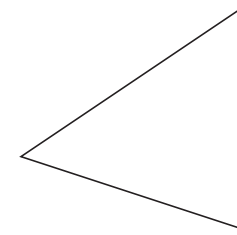


vii)

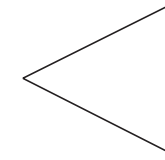


viii)

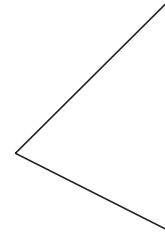
c) Triangles



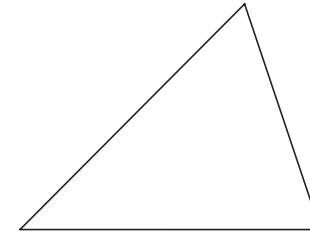
i)



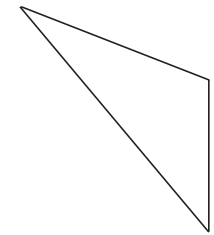
ii)



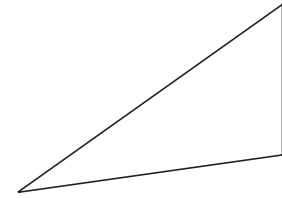
iii)



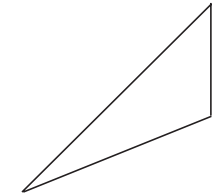
iv)



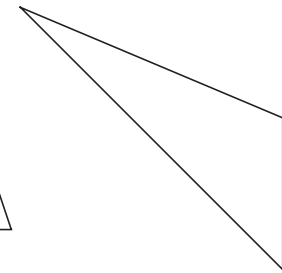
v)



vi)

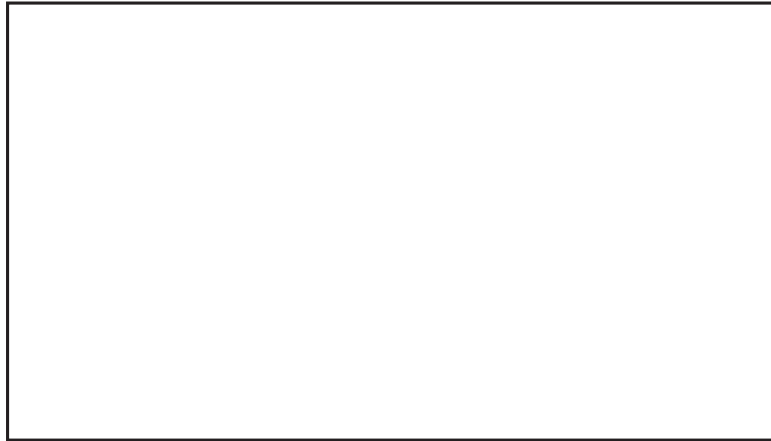


vii)

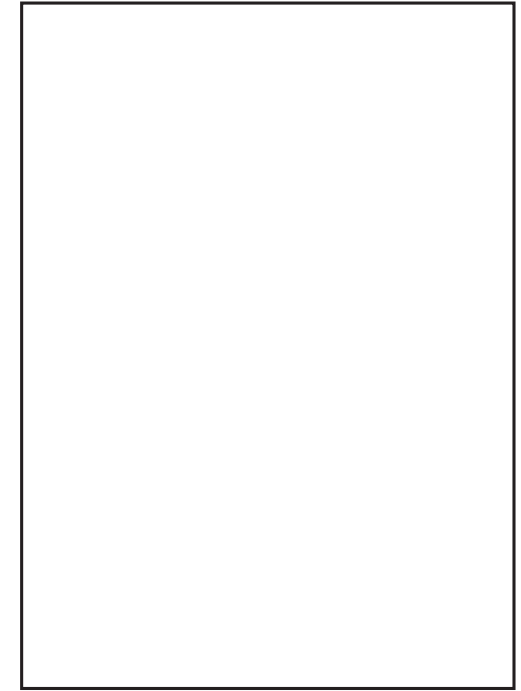


viii)

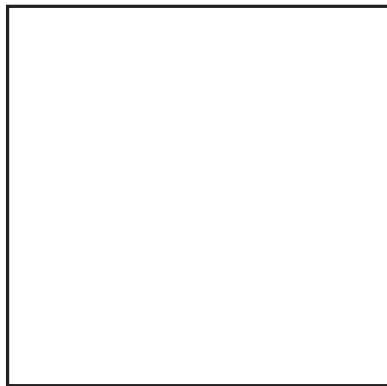
a)

 $a$  $b$ 

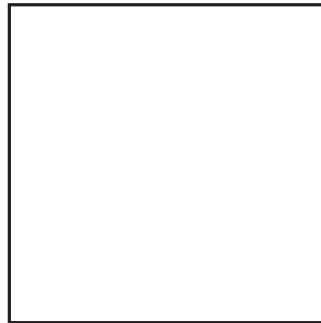
b)

 $c$  $d$ 

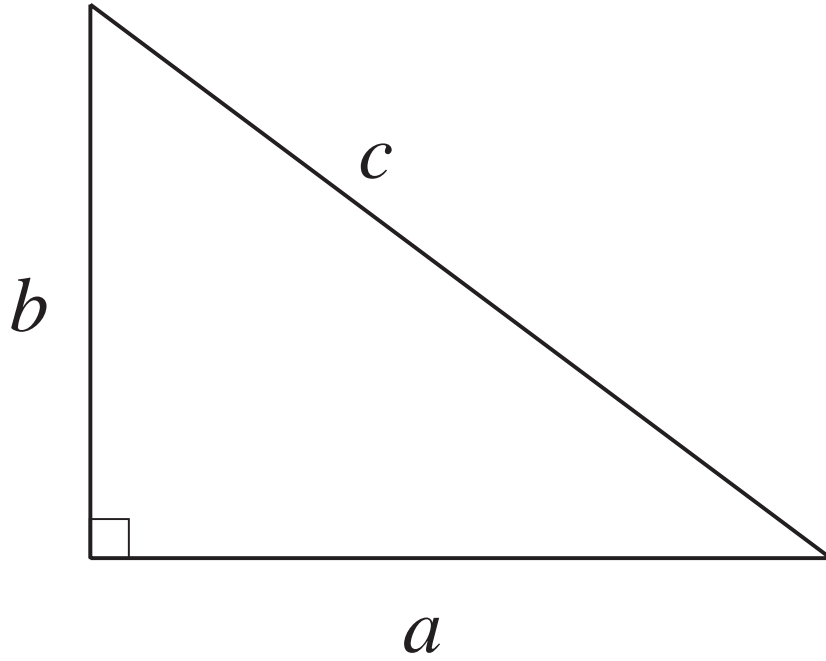
c)

 $a$ 

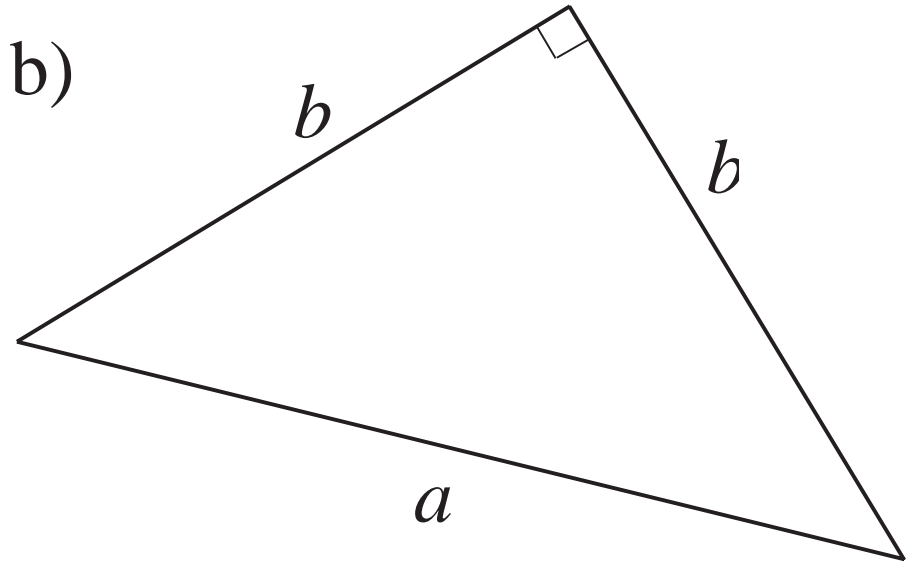
d)

 $b$

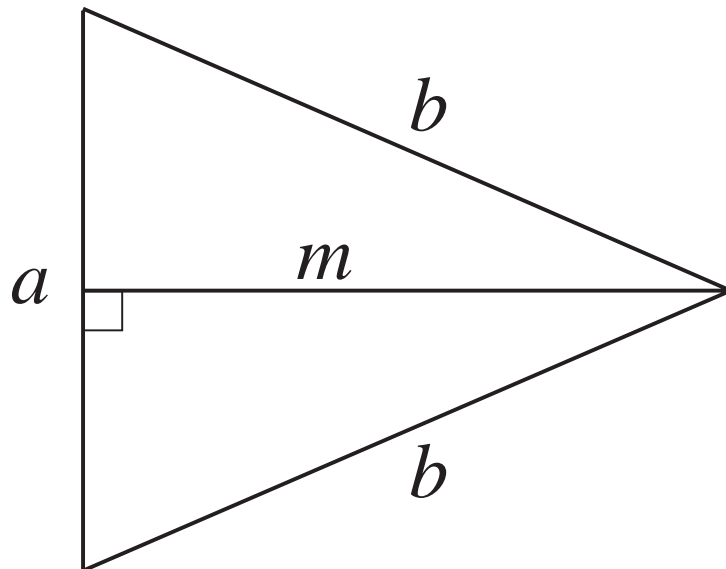
a)



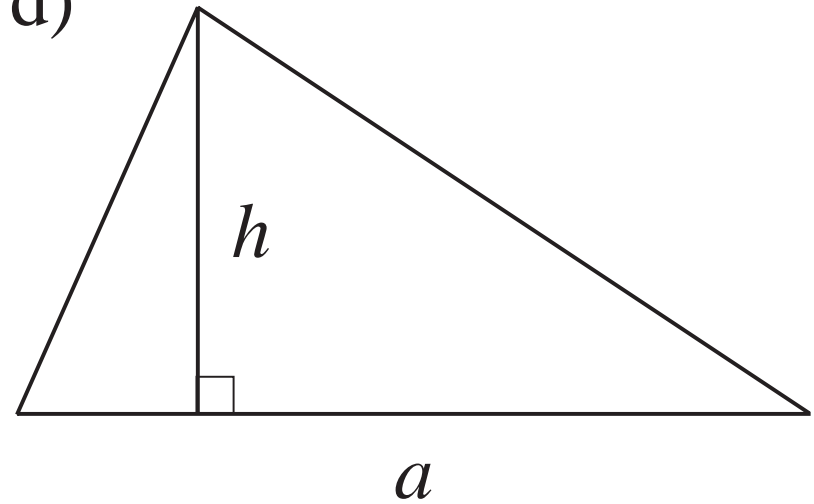
b)

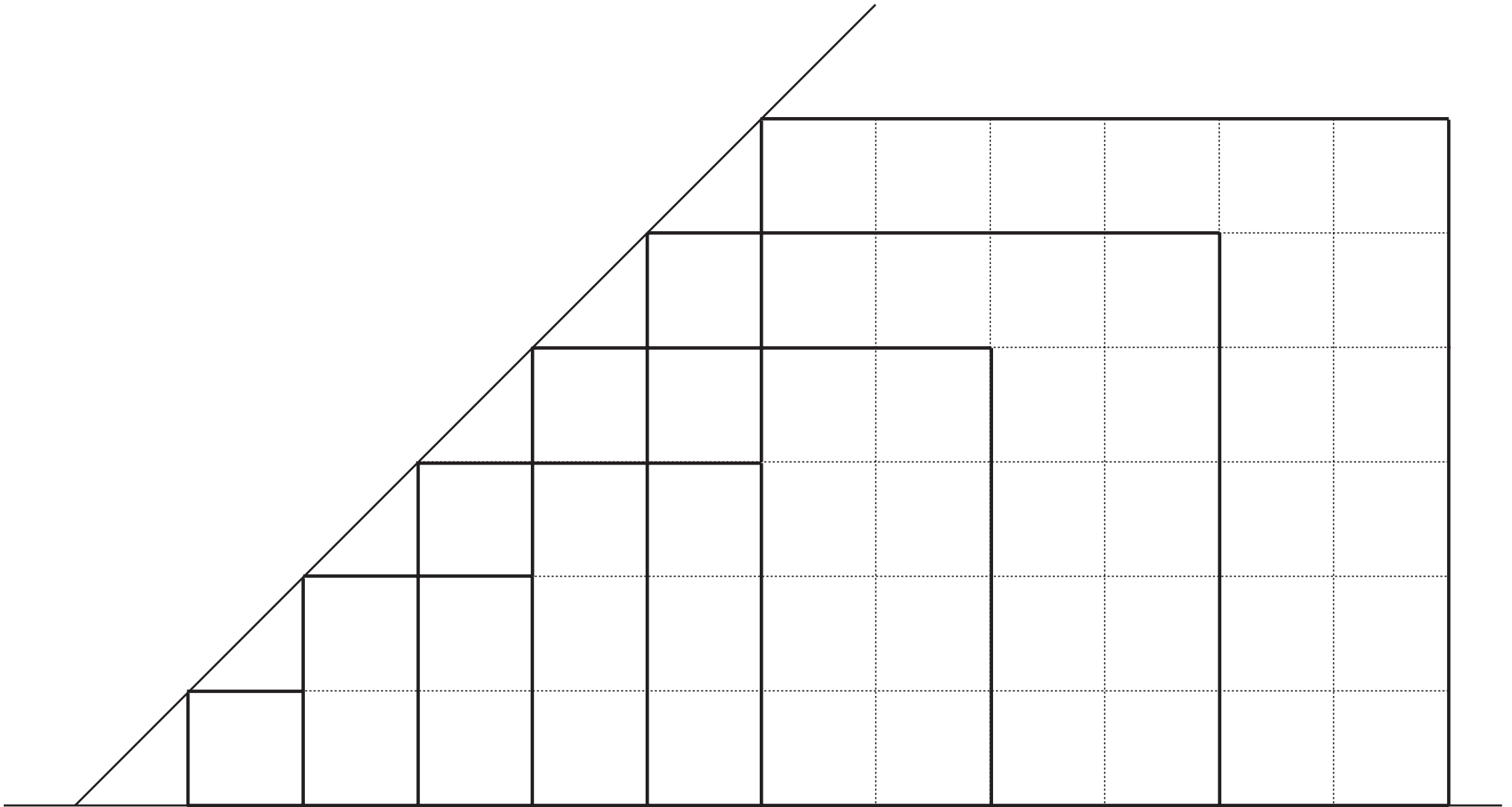


c)



d)







$a$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
$A$																

LP106/4

$A$	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225
$a$															

LP106/6

a) i)  $\sqrt{100} =$

ii)  $\sqrt{10\,000} =$

iii)  $\sqrt{1\,000\,000} =$

b) i)  $\sqrt{256} =$

ii)  $\sqrt{2.56} =$

iii)  $\sqrt{25\,600} =$

c) i)  $\sqrt{0.25} =$

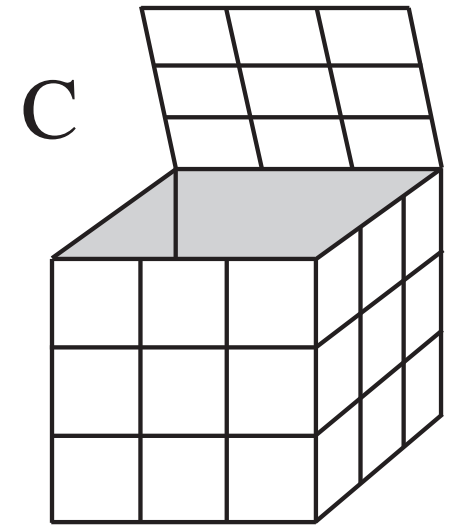
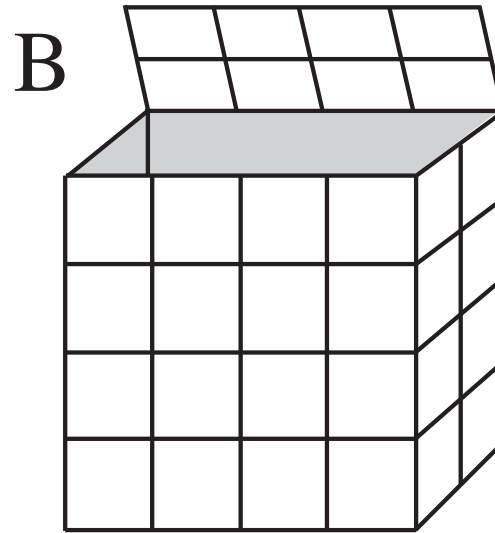
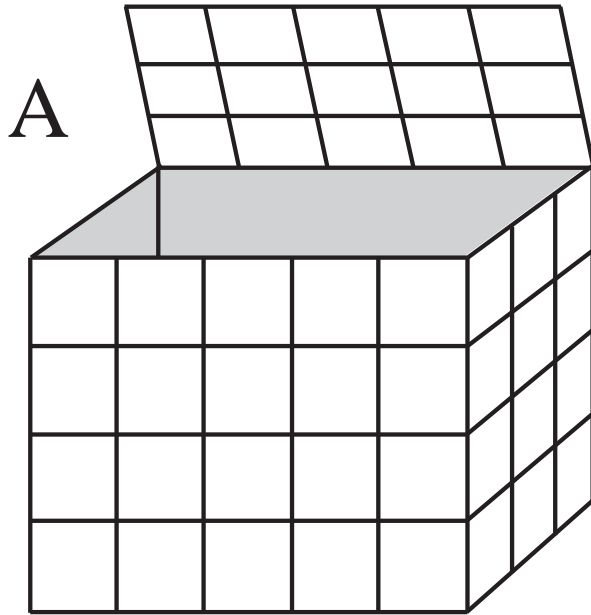
ii)  $\sqrt{25} =$

iii)  $\sqrt{2500} =$

d) i)  $\sqrt{1.96} =$

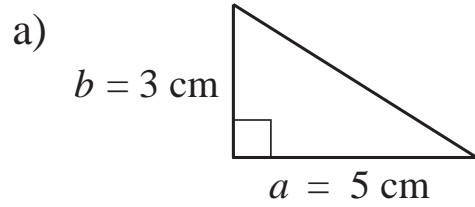
ii)  $\sqrt{196} =$

iii)  $\sqrt{19.6} \approx$

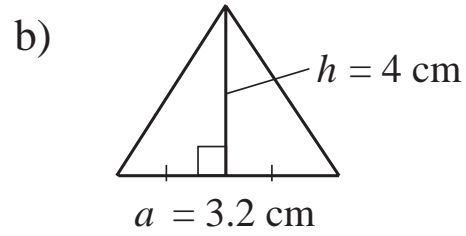


	Along an edge	In a layer	Total number of cubes
A			
B			
C			

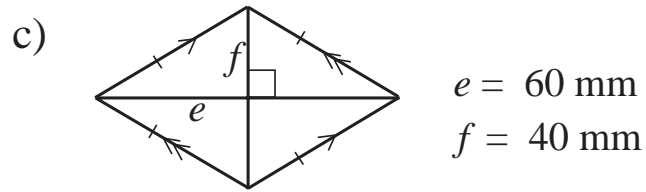




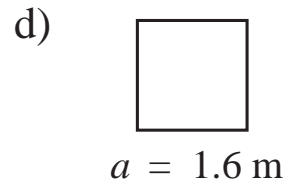
$A =$



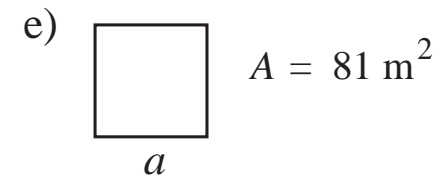
$A =$



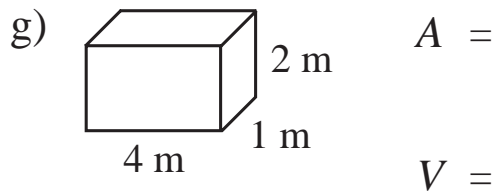
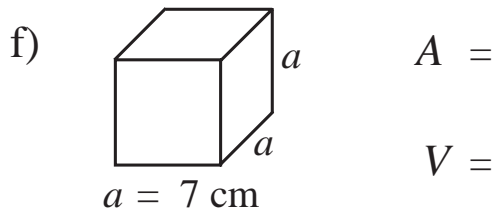
$A =$



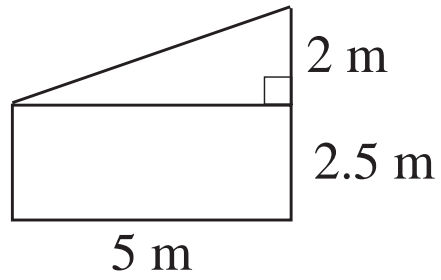
$A =$



$a =$

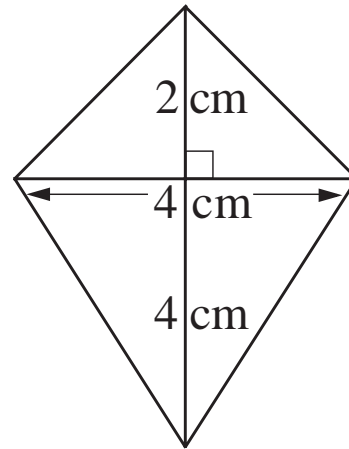


a)



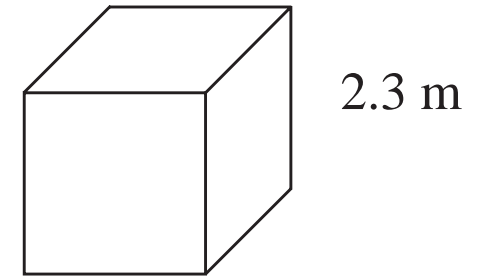
$$A =$$

b)



$$A =$$

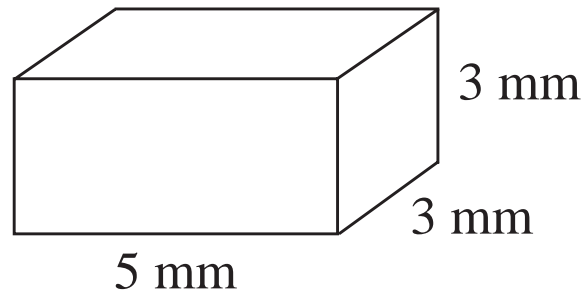
c)



$$A =$$

$$V =$$

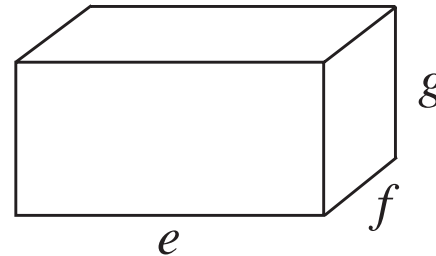
d)



$$A =$$

$$V =$$

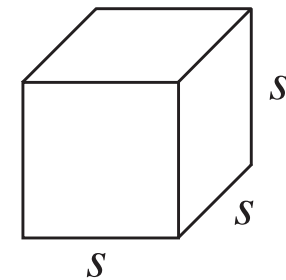
e)



$$A =$$

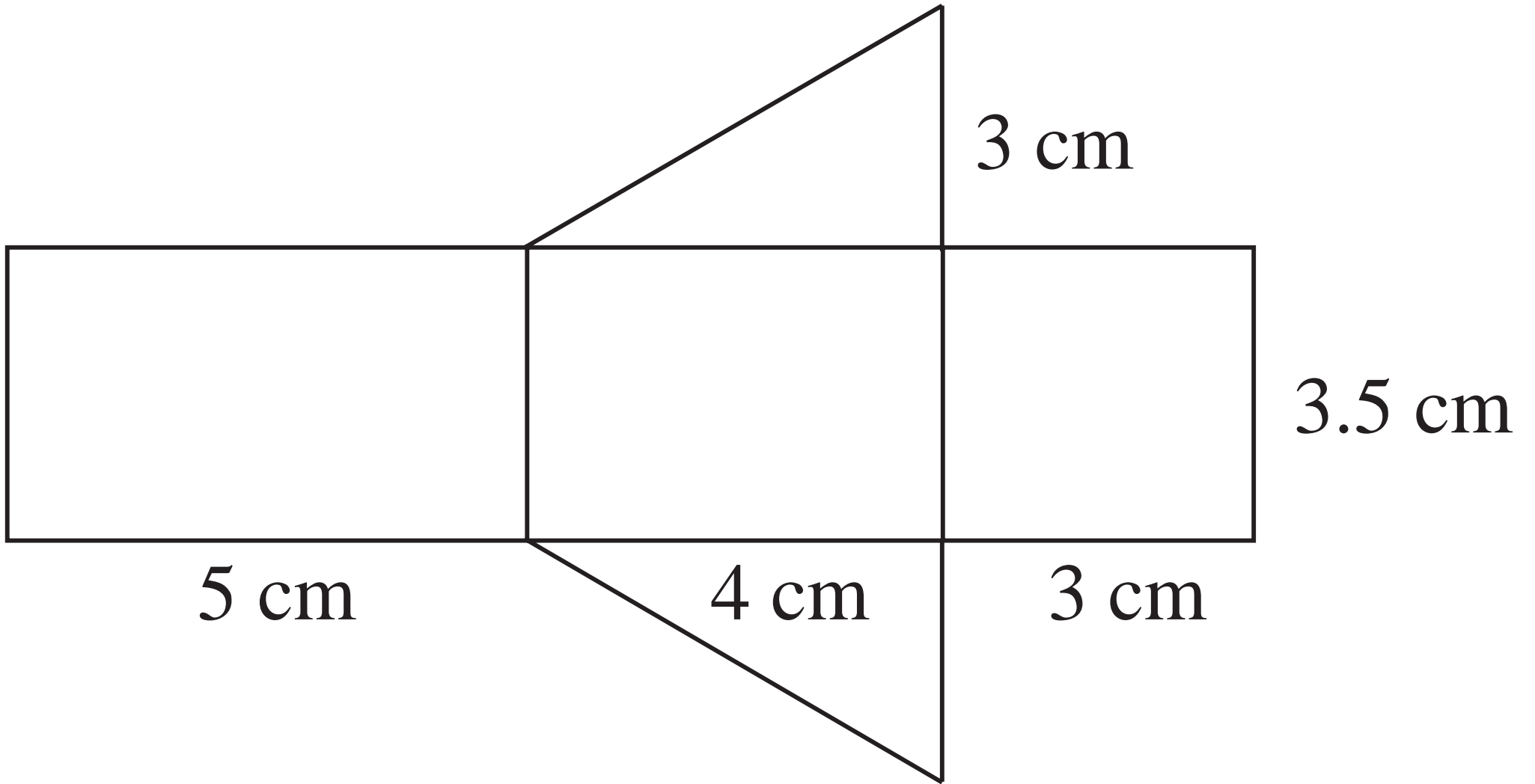
$$V =$$

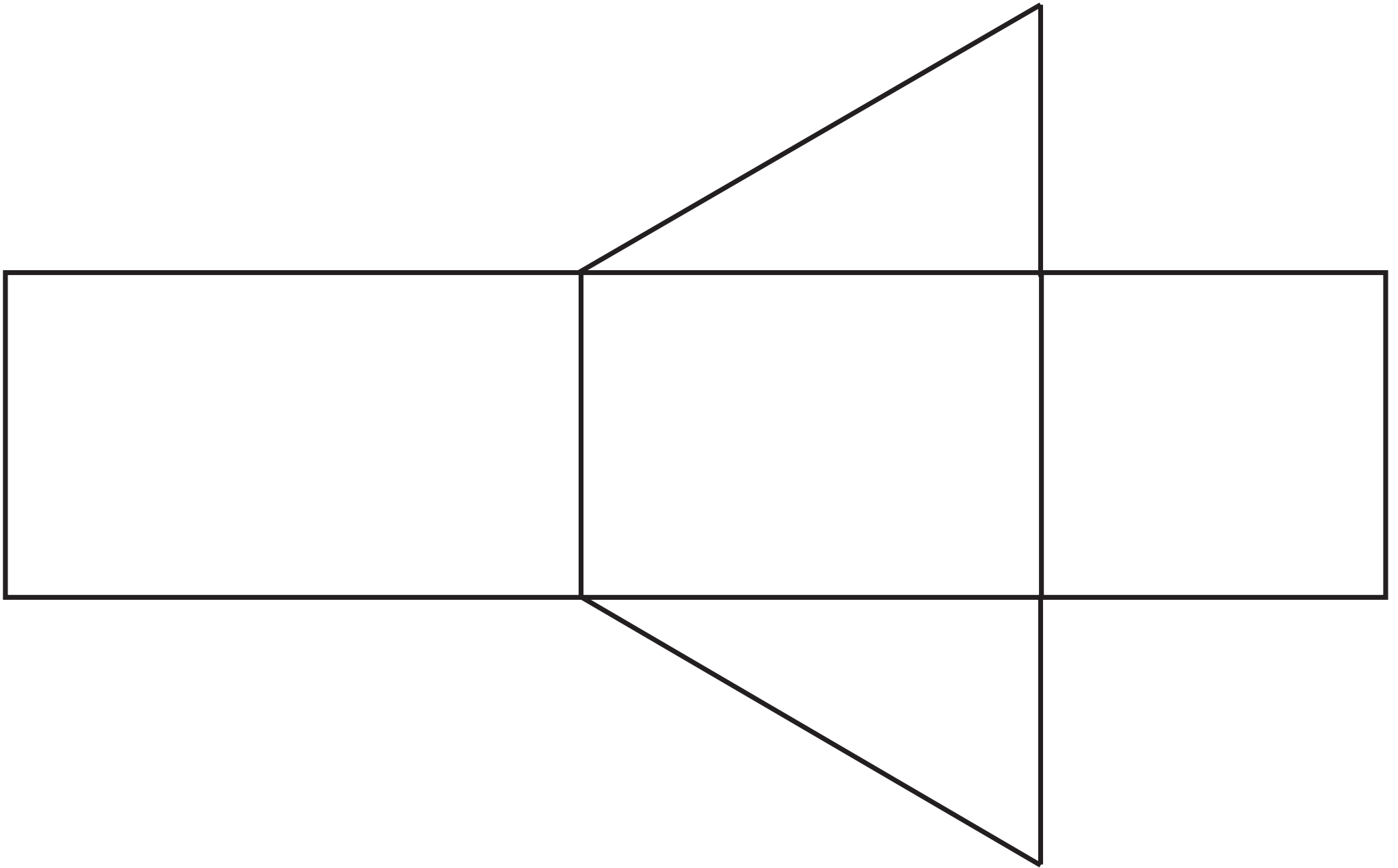
f)



$$A =$$

$$V =$$





Make 2 copies on card, cut out and fold to form half a cubeoid.

$a$ (units)	1	2	3	4	5	6	7	8	9	10
$V$ (unit cubes)										

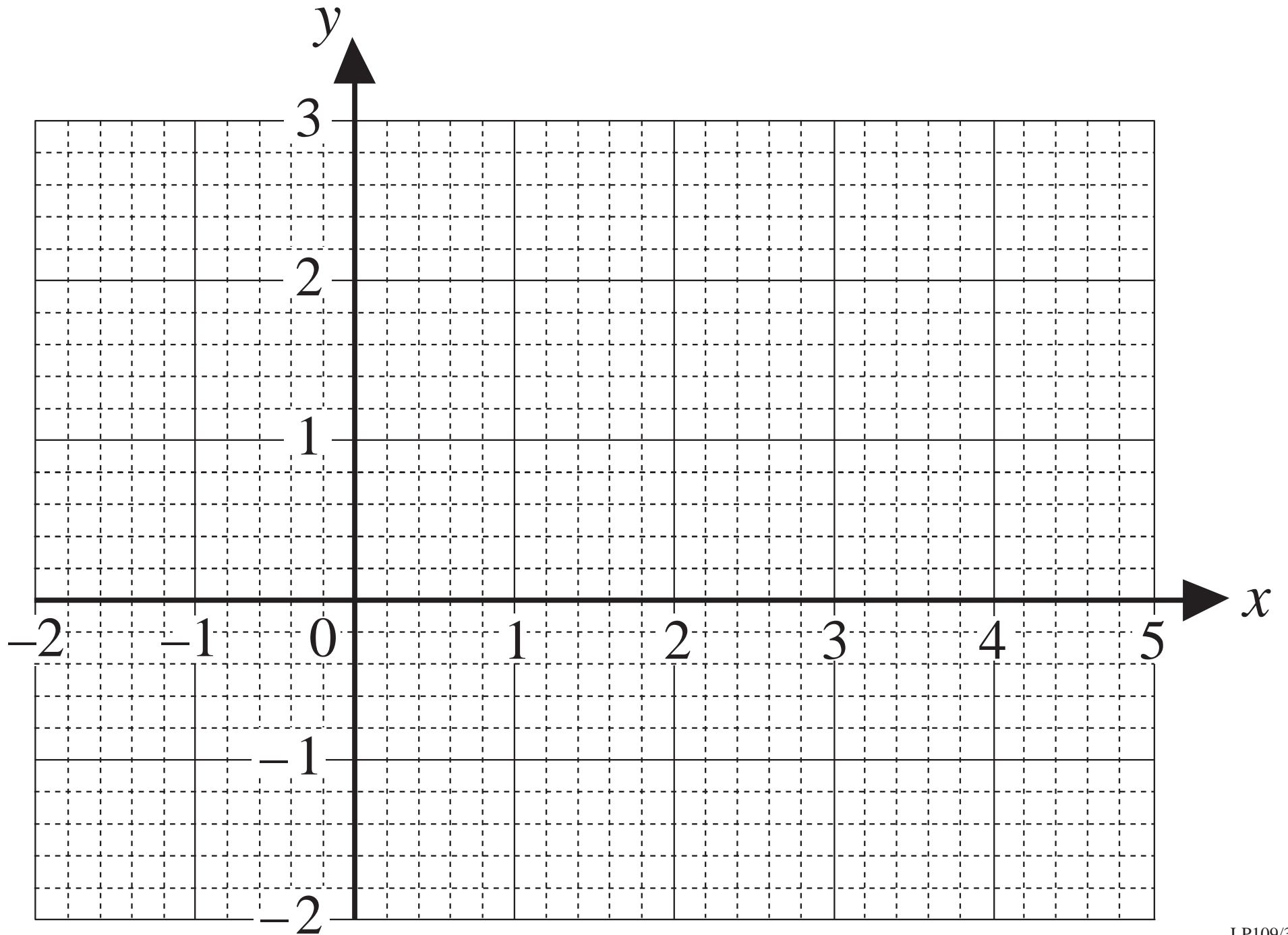
LP108/5

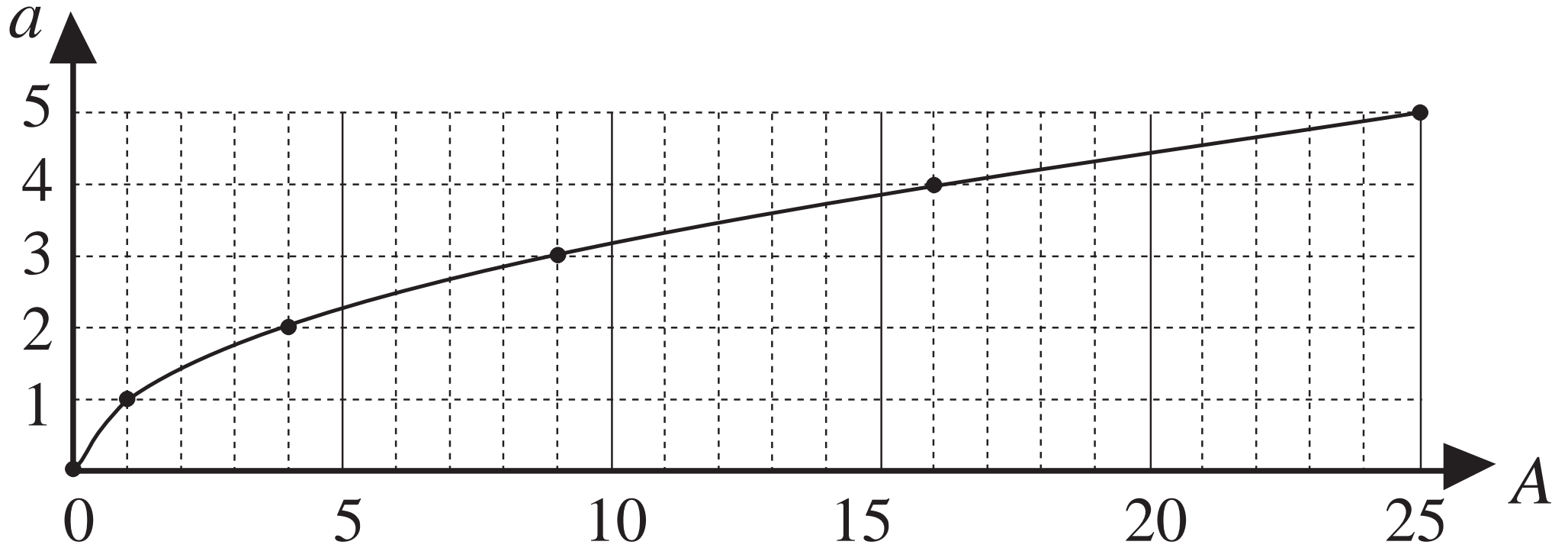
$x$	-4.1	2	$-\frac{3}{4}$	0	-0.7	-11	-0.93	-2	↓
$ x $	4.1	2	$\frac{3}{4}$	0	0.7	11	0.93	2	

LP109/2c

$x$	1	-1	4	0	2.5	-2	5
$y$	0.6						

LP109/3a





$a$	0	1	2	3		5
$A$	0					

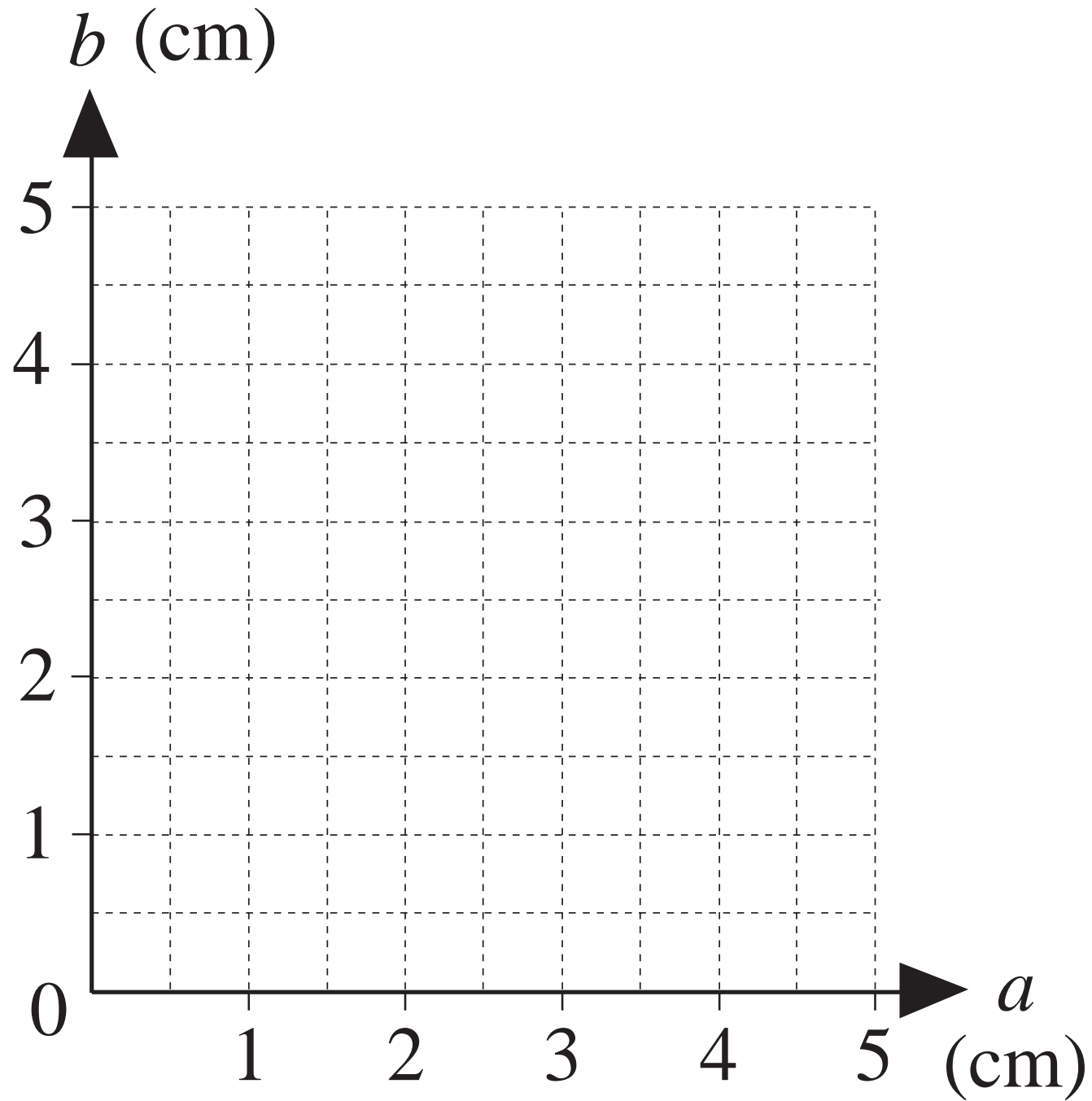
$a$	0.1	0.9		$\frac{3}{4}$			5		1
$A$			24		$\frac{1}{6}$	37.5		600	

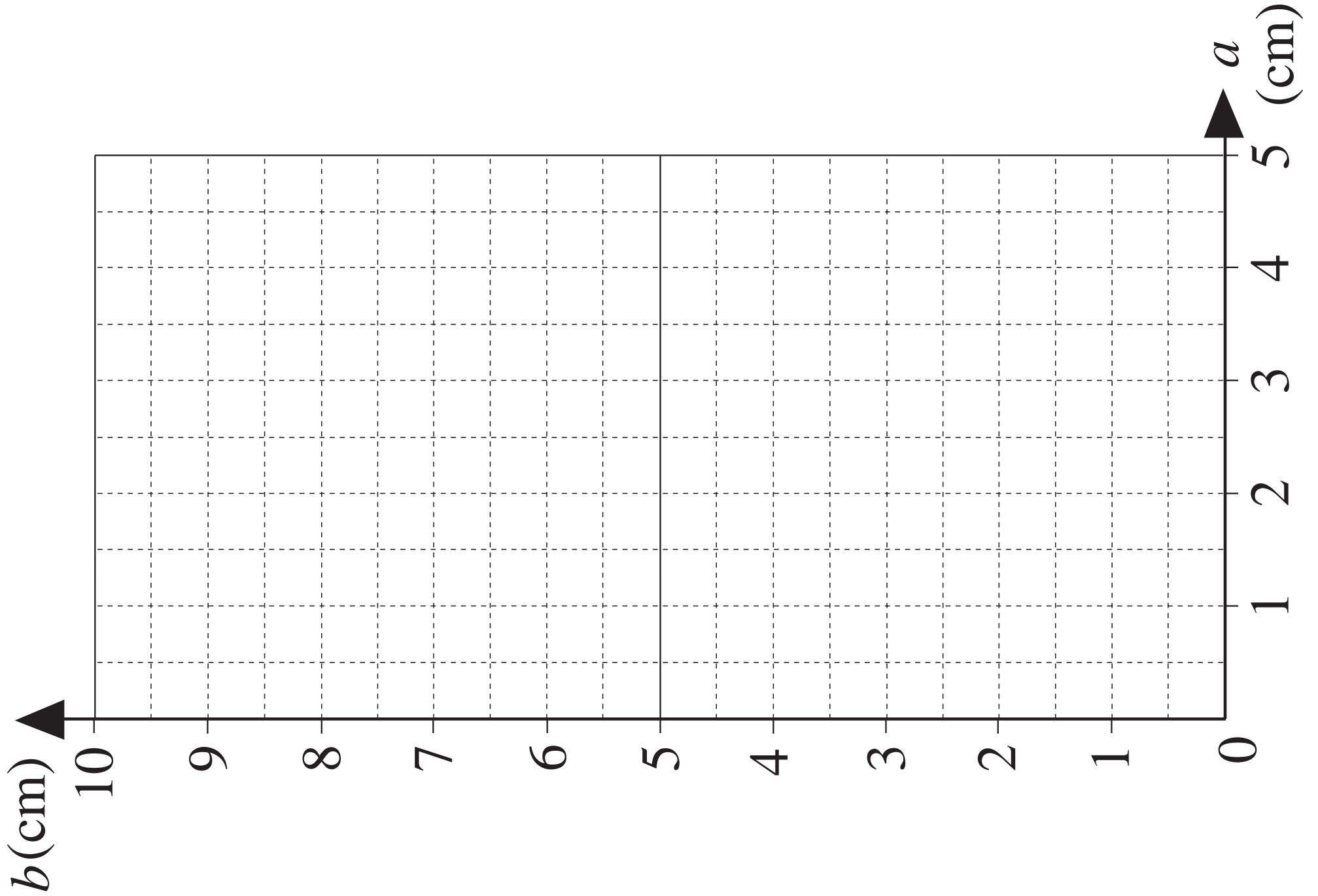
LP109/5

$a$	0.1	0.9	1.1			$\frac{2}{3}$		10		
$V$				64	1		$\frac{27}{8}$		125	1000

LP109/7







$a$ (cm)		0.2		6			3.7			11
$V$ (cm <sup>3</sup> )			125			0.001			1000	
$A$ (cm <sup>2</sup> )	6				864			96		

LP110/3

$x$	0						
$y$	0						

LP110/5a

