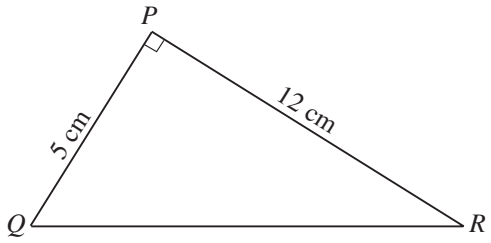
UNIT 34 *Pythagoras' Theorem and Trigonometric Ratios* — CSEC Multiple Choice Questions

For each of these questions, choose the option that is TRUE. (All questions from past *CXC* papers.)

1. This question refers to the triangle PQR in which angle $QPR = 90°$, $PR = 12$ cm and $PQ = 5$ cm.



The length of QR, in cm, is

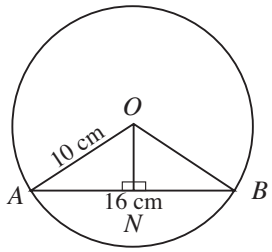
(A) 7

(B) 11

(C) 13

(D) 17

2.



The diagram above shows a circle with centre O. A line ON is drawn perpendicular to AB. $OA = 10$ cm and $AB = 16$ cm.
The length, in cm, of ON is

(A) 5

(B) 6

(C) 8

(D) 10

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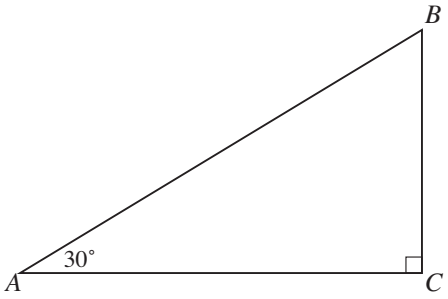
3.



The triangle *ABC* above shows the angle of elevation of the top, *B*, of a tower, *BC*, from *A*, to be $30°$. $AB = 40$ m. The length of *BC* is

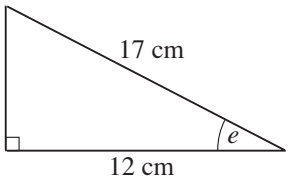
(A) $40\tan 30°$

(B) $40\sin 60°$

(C) $40\tan 60°$

(D) $40\sin 30°$

4.



In the diagram above, which of the following is true?

(A) $\sin e = \frac{12}{17}$

(B) $\cos e = \frac{12}{17}$

(C) $\sin e = \frac{17}{12}$

(D) $\tan e = \frac{17}{12}$

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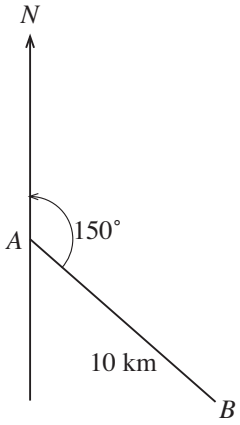
5. Question 5 refers to the diagram below.



A plane travels from point A on a bearing $150°$ to a point B 10 km from A. How far east of A is B?

(A) $10\cos 60°$

(B) $10\cos 30°$

(C) $10\sin 60°$

(D) $10\tan 30°$

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CSEC Multiple Choice Questions

ANSWERS

1. C
2. B
3. D
4. B
5. A