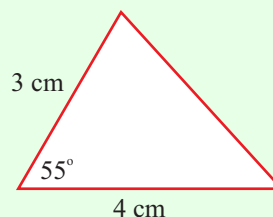


TRIGONOMETRY (Q 5, PAPER 2)

2007

- 5 (a) Calculate the area of the triangle shown.

Give your answer correct to one decimal place.

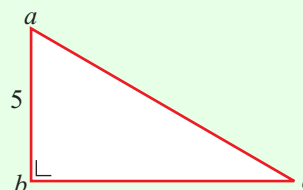


- (b) In the right-angled triangle abc , $|ab| = 5$ cm.
The area of the triangle is 15 cm^2 .

(i) Find $|bc|$.

(ii) Find $|\angle cab|$, correct to the nearest degree.

(iii) Find $|\angle bca|$, correct to the nearest degree.

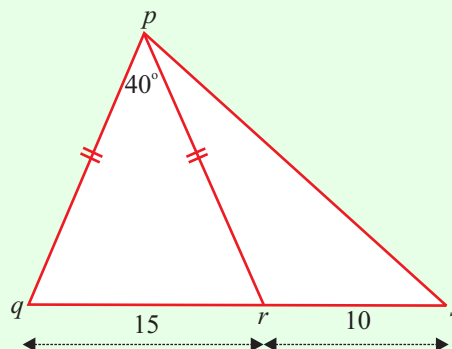


- (c) In the triangle pqr ,

$|pq| = |pr|$, $|qr| = 15$ cm and $|\angle rpq| = 40^\circ$.

(i) Find $|pr|$, correct to the nearest centimetre.

(ii) s is a point on qr such that $|rs| = 10$ cm.
Find $|ps|$, correct to the nearest centimetre.



ANSWERS

5 (a) 4.9 cm^2

(b) (i) $|bc| = 6 \text{ cm}$

(ii) 50°

(iii) 40°

(c) (i) 22 cm

(ii) 27 cm