

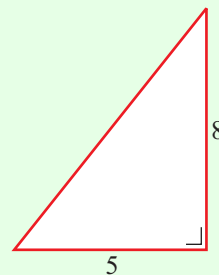
TRIGONOMETRY (Q 5, PAPER 2)

2006

- 5 (a) The lengths of two sides of a right-angled triangle are shown in the diagram.

(i) Copy the diagram into your answer book and on it mark the angle A such that $\tan A = \frac{5}{8}$.

(ii) Find the area of the triangle.

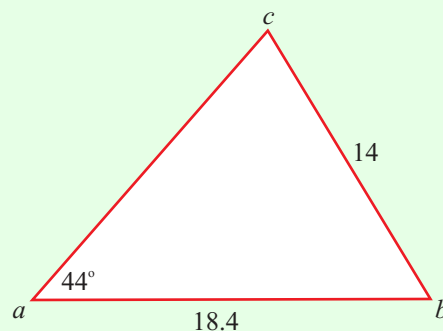


- (b) In the triangle abc ,

$$|ab| = 18.4, |bc| = 14 \text{ and } |\angle cab| = 44^\circ.$$

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

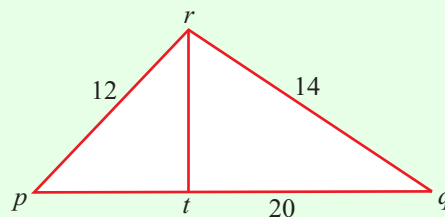
(ii) Find the area of the triangle abc , correct to the nearest whole number.



- (c) The lengths of the sides of the triangle pqr are $|pq| = 20$, $|qr| = 14$ and $|pr| = 12$.

(i) Find $|\angle rpq|$, correct to one decimal place.

(ii) Find $|rt|$, where $rt \perp pq$. Give your answer correct to the nearest whole number.



ANSWERS

- 5 (a) (ii) 20 units²
 (b) (i) 66° (ii) 121 units²
 (c) (i) 43.5° (ii) 8 units