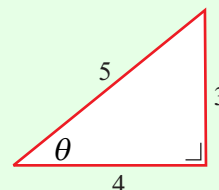


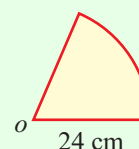
TRIGONOMETRY (Q 5, PAPER 2)

2002

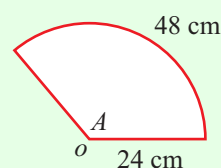
- 5 (a) Use the information given in the diagram to show that $\sin \theta + \cos \theta > \tan \theta$.



- (b) A circle has radius 24 cm and centre o .
 (i) Calculate the area of a sector which has 70° at o .
 Take $\pi = \frac{22}{7}$.

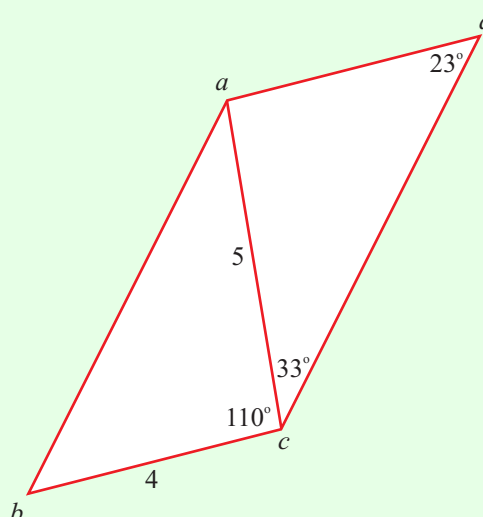


- (ii) An arc of length 48 cm subtends an angle A at o .
 Calculate A , correct to the nearest degree.



- (c) In the quadrilateral $abcd$, $|ac| = 5$ units,
 $|bc| = 4$ units, $|\angle bca| = 110^\circ$, $|\angle acd| = 33^\circ$
 and $|\angle cda| = 23^\circ$.

- (i) Calculate $|ab|$, correct to two decimal places.
 (ii) Calculate $|cd|$, correct to two decimal places.



ANSWERS

- 5 (b) (i) 352 cm^2 (ii) 115°
 (c) (i) 7.39 cm (ii) 10.61 cm