

3

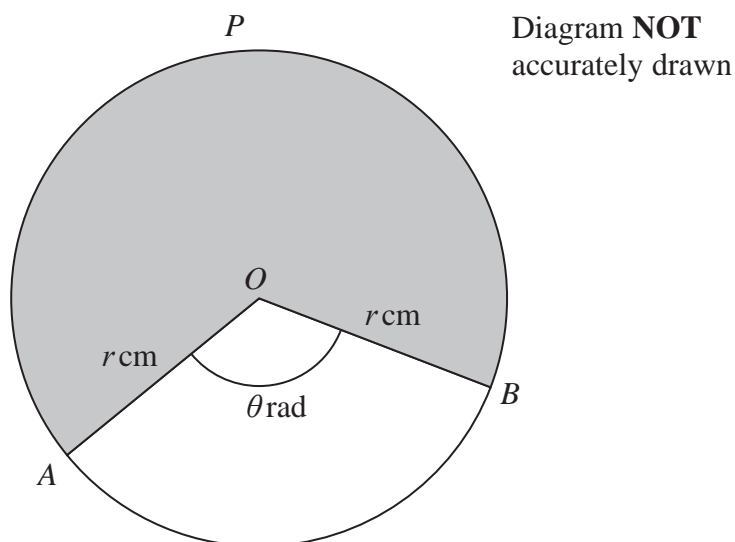


Figure 1

Figure 1 shows a circle, centre O , with radius r cm.

The points A , P and B lie on the circle.

The obtuse angle $AOB = \theta$ radians.

The area of the sector $APBO$, shown shaded, is 372.4 cm^2 and the length of the arc APB is 53.2 cm.

Find, to 3 significant figures where appropriate, the value of

- (i) r
- (ii) θ

(6)



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Question 3 continued

Handwriting practice area with horizontal dotted lines.

(Total for Question 3 is 6 marks)

