

Circular Functions and Trig - Practice Problems (to 07)

1. In the triangle PQR, PR = 5 cm, QR = 4 cm and PQ = 6 cm.
Calculate

- (a) the size of \hat{PQR} ;
(b) the area of triangle PQR.

(Total 6 marks)

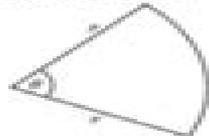
2. The following diagram shows a triangle ABC, where \hat{ACB} is 90° , AB = 3, AC = 2 and \hat{BAC} is θ .



- (a) Show that $\sin \theta = \frac{\sqrt{5}}{3}$.
(b) Show that $\sin 2\theta = \frac{4\sqrt{5}}{9}$.
(c) Find the exact value of $\cos 2\theta$.

(Total 6 marks)

3. The following diagram shows a sector of a circle of radius r cm, and angle θ at the centre. The perimeter of the sector is 20 cm.



- (a) Show that $\theta = \frac{20 - 2r}{r}$.
(b) The area of the sector is 25 cm^2 . Find the value of r .

(Total 6 marks)

4. The following diagram shows the triangle AOP, where OP = 2 cm, AP = 4 cm and AO = 3 cm.



diagram not to scale

- (a) Calculate \hat{AOP} , giving your answer in radians.

(3)

The following diagram shows two circles which intersect at the points A and B. The smaller circle C_1 has centre O and radius 3 cm, the larger circle C_2 has centre P and radius 4 cm, and OP = 2 cm. The point D lies on the circumference of C_1 and E on the circumference of C_2 . Triangle AOP is the same as triangle AOP in the diagram above.

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