

## 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  $90^\circ$ , AB = 3, AC = 2 and  $\hat{BAC}$  is  $\theta$ .



- (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  $\theta$  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  $25 \text{ cm}^2$ . 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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**Sir James Augustus Henry Murray**



**Ib Math SI Trig Practice Problems 08 09 Alei Desert:**

**The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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