

10

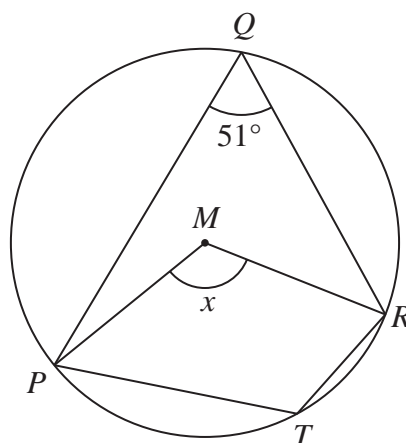


Diagram **NOT** accurately drawn

Figure 2

In Figure 2, P , Q , R and T are points on a circle with centre M such that $\angle PQR = 51^\circ$

- (a) Find the size, in degrees, of the angle marked x in Figure 2 (1)
- (b) Find the size, in degrees, of the obtuse angle PTR . (1)

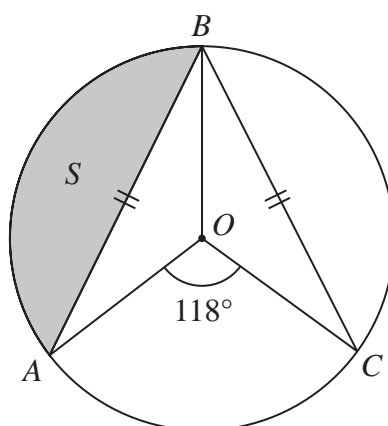


Diagram **NOT** accurately drawn

Figure 3

In Figure 3, A , B and C are points on a circle with centre O such that $\angle AOC = 118^\circ$ and $BA = BC$.

The area of the region S , shown shaded in Figure 3, is 70 cm^2

- (c) Calculate the total area, in cm^2 to 3 significant figures, of the unshaded region inside the circle. (5)

$$\left[\text{Area of triangle} = \frac{1}{2} ab \sin C \right]$$



DO NOT WRITE IN THIS AREA

(Total for Question 10 is 7 marks)

