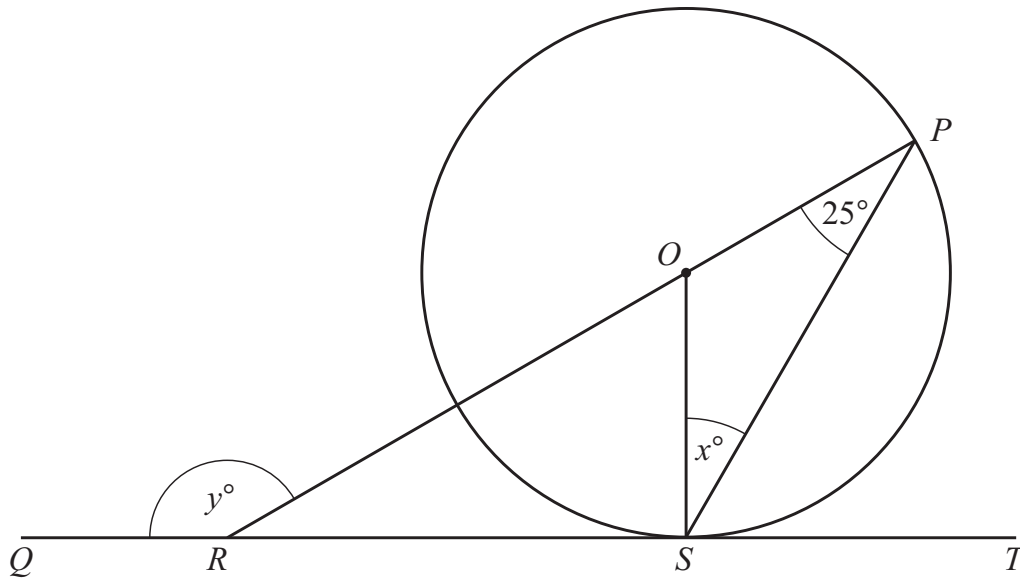


NOT TO  
SCALE

The diagram shows a circle, centre  $O$ .  
 $P$  and  $S$  are points on the circle.  
 $POR$  is a straight line.  
 $QRST$  is a tangent to the circle at  $S$ .

- (a) Find the value of  $x$ .  
 Give a geometrical reason for your answer.

$x = \dots\dots\dots$  because  $\dots\dots\dots$  [2]

- (b) Find the value of  $y$ .

$y = \dots\dots\dots$  [3]