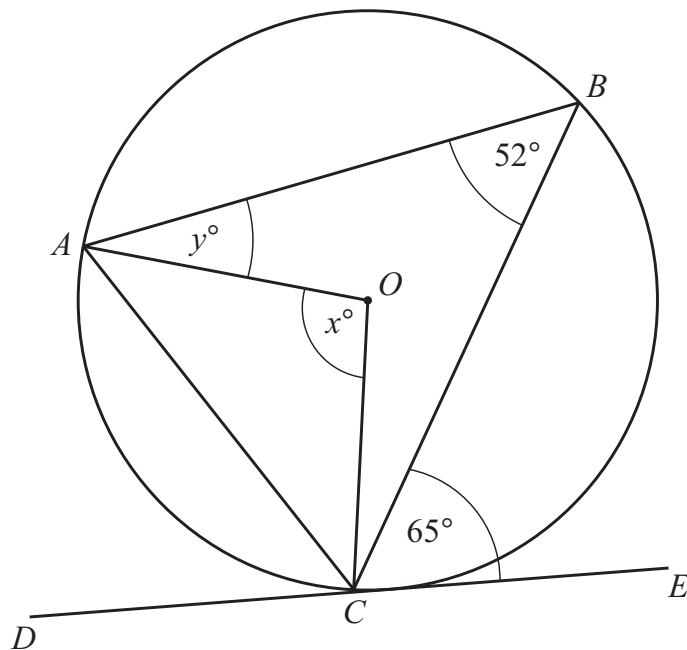


NOT TO  
SCALE

$A$ ,  $B$  and  $C$  lie on a circle centre  $O$ .  
 $DE$  is a tangent to the circle at  $C$ .  
 Angle  $ABC = 52^\circ$  and angle  $BCE = 65^\circ$ .

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

$x = \dots\dots\dots$  because  $\dots\dots\dots$

$\dots\dots\dots$  [2]

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

$y = \dots\dots\dots$  [2]