



DO NOT WRITE IN THIS AREA

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$A, B, C$  and  $D$  are points on the circumference of a circle, centre  $O$ .  
 $FDE$  is a tangent to the circle.

- (a) Show that  $y - x = 90$   
 You must give a reason for each stage of your working.

(3)

Dylan was asked to give some possible values for  $x$  and  $y$ .

He said,

“ $y$  could be 200 and  $x$  could be 110, because  $200 - 110 = 90$ ”

- (b) Is Dylan correct?  
 You must give a reason for your answer.

(1)

(Total for Question 13 is 4 marks)

