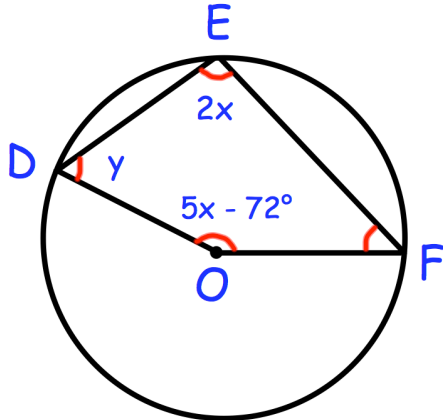


20th June

Corbettmaths

$$\frac{1}{7} \text{ of } 2y = 64\% \text{ of } (y - 77.5)$$

Work out the value of y 

The points D, E and F are points on a circle, centre O.

$$\text{Angle DEF} = 2x$$

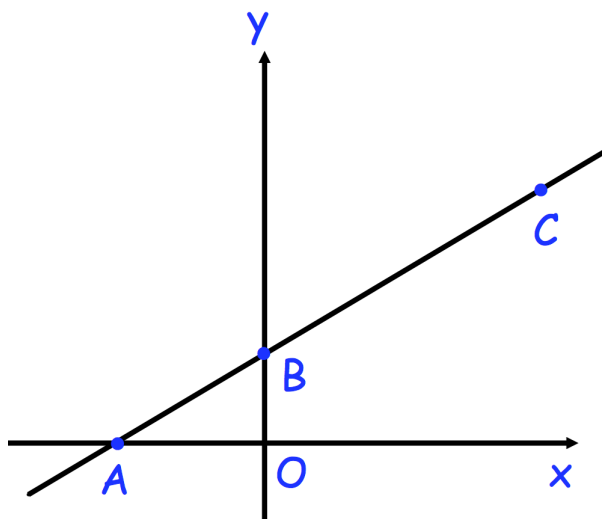
$$\text{Angle DOF} = 5x - 72^\circ$$

$$\text{Angle EDO} = y$$

Angle EFO is 14° smaller than angle DEF

Work out the value of y

A, B and C are points on the line
 $5x - 4y + 12 = 0$



$$AB : BC = 2 : 9$$

Work out the area of triangle OBC.