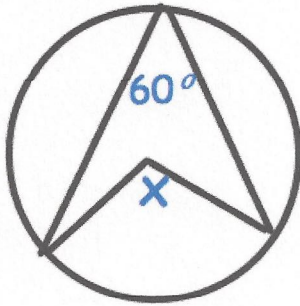


16th May



Corbettmaths



Calculate angle x

$$x = 120^\circ$$

The points ABCD are in a straight line.

$$AB : BC : CD = 1 : 2 : 5$$

The point B is (2, 17.5) and D is (27, 5)

$$\vec{BD} = \begin{pmatrix} 25 \\ -17.5 \end{pmatrix}$$

Find the coordinates of point A

$$AB : BD = 1 : 5$$

$$\vec{AB} = \begin{pmatrix} 5 \\ -2.5 \end{pmatrix} \quad A = (-3, 20)$$

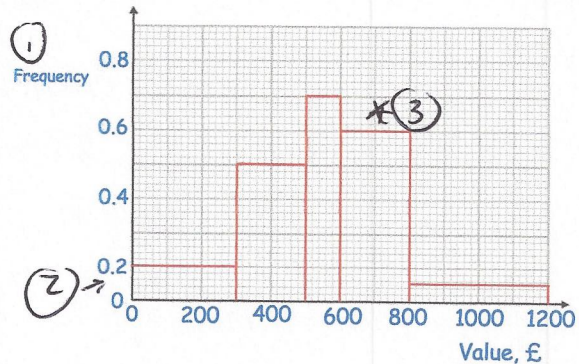
Simplify

$$\frac{x^2 - 1}{x^2 + 4x + 3} = \frac{(x-1)(x+1)}{(x-1)(x+3)}$$

$$\frac{x-1}{x+3}$$

Christine has drawn a histogram to show the value of some antiques. She has made some mistakes.

- (1) Frequency density
- (2) The scale
- (3)  $60 \div 200 = 0.3$



Value, v pounds	Frequency
$0 \leq v < 300$	60
$300 \leq v < 500$	100
$500 \leq v < 600$	70
$600 \leq v < 800$	60
$800 \leq v < 1200$	40

\* (3)