

1st November

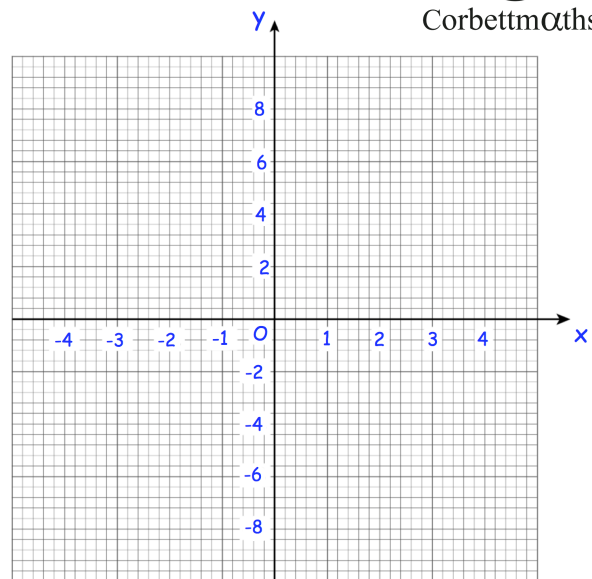
Corbettmaths

A function $f(x)$ is defined as

$$f(x) = 10 + x - x^2 \quad -3 \leq x < -1$$

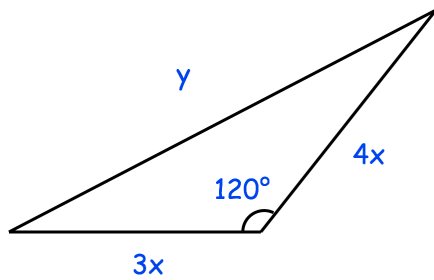
$$= x^2 + 7 \quad -1 \leq x < 1$$

$$= \frac{8}{x} \quad 1 \leq x \leq 4$$

Draw the graph of $y = f(x)$ 

$$\mathbf{C} = \begin{pmatrix} -3 & 2 \\ -1 & 5 \end{pmatrix}$$

$$\mathbf{D} = \begin{pmatrix} -4 & 0 \\ 2 & 3 \end{pmatrix}$$

Work out the matrix \mathbf{CD} Work out the ratio $y : x$