

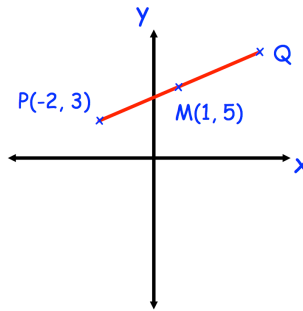
22nd September



Corbettmaths

M is the midpoint of PQ

Find the coordinates of Q



$$f(x) = \frac{8}{x+4} \text{ for all positive values of } x$$

Work out  $f(x-4) + f(2x)$ 

Give your answer as a single fraction in its simplest form.

Write  $8x^2 - 56x + 3$  in the form  $a(bx + c)^2 + d$ Find the values of  $x$  for which  $y = 72x - 2x^3$  is an increasing functionDescribe fully the **single** transformation represented by  $\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$