14th January

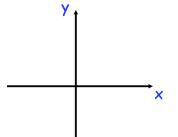
For what values of x is $y = x^2 + 3$
an increasing function?

Corbettmoths

$$y = (x+7)(x+3)$$

Work out
$$\frac{dy}{dx}$$

Sketch the graph of $y = 2x^2 - 3x - 14$ and work out the equation of the line of symmetry of the graph.



$$\begin{pmatrix} 1 & 2 \\ x & 3x \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 3 \\ 10 \end{pmatrix}$$

Work out the possible values for \boldsymbol{x} and \boldsymbol{y}