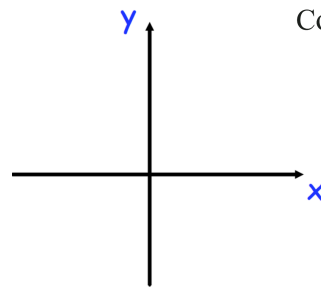**20th February**

Corbettmaths

Sketch the graph of
$y = 3x^2 - 31x + 36$
and work out the equation of the line of symmetry of the graph.

y

x

Rearrange

$$y = \frac{4c^3 + m}{c^3 - 8}$$

make c the subject

Work out the rate of change of y with respect to x at the point on the curve

$y = x^3 - 2x^2 + x - 1$ where x = −1

The transformation matrix $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$
maps point P to point Q.

The transformation matrix $\begin{pmatrix} -3 & 0 \\ 0 & -3 \end{pmatrix}$
maps point Q to point R.

Point R is $(-6, \, -15)$.

Work out the coordinates of point P.