5th December

Corbettmaths

$$4\begin{pmatrix} 6-c \\ d \end{pmatrix} = c\begin{pmatrix} -2 \\ 9 \end{pmatrix}$$

Work out the values of *c* and *d*

Use the factor theorem to show that $(x-2)$ is a factor of

$x^3 + 6x^2 - 9x - 14$

Hence, factorise fully

$x^3 + 6x^2 - 9x - 14$

A curve has equation
$y = 2x^3 - 7x^2 + 12$

Work out the equation of the tangent to the curve at the point where $x = 2$