

30th August

Corbettmaths

Find where the matrix $\begin{pmatrix} 3 & -4 \\ -5 & 2 \end{pmatrix}$
maps the point $(2, -6)$

Solve $3x^2 + 12x - 2 = 0$ using
completing the square

A circle C has centre P

The points A $(-1, 7)$ and B $(7, 7)$ lie on
the diameter of C.

Write down the equation of the circle.

Show that $(3x + 1)$ is a factor of
 $3x^3 + 22x^2 + 10x + 1$

Write $3x^3 + 22x^2 + 10x + 1$ in the form
 $(3x + 1)(x^2 + px + q)$