

27th May

Corbettmaths

AB is a straight line

The coordinates of A are $(-3, 15)$ The coordinates of B are $(-9, -18)$

Work out the coordinates of the midpoint of AB

Show that $(2x - 3)$ is a factor of

$$4x^3 + 20x^2 - 53x + 21$$

Hence, factorise fully

$$4x^3 + 20x^2 - 53x + 21$$

Find the transformation matrix that is equivalent to

- a reflection in the x-axis

followed by

- a rotation, 180° about the origin