

9th April

Corbettmaths

M is the midpoint of the line AB.
The coordinates of the point M are (7, 2)
The coordinates of the point B are (11, 8)
The coordinates of the point C are (7, -4)

Find the area of triangle ACM.

Expand and simplify fully

$$(1 - x)(x + 2)^2$$

Solve the inequality

$$5x^2 + 7x + 2 > 0$$

$$\mathbf{A} = \begin{pmatrix} -3 & 4 \\ -1 & 2 \end{pmatrix} \quad \mathbf{B} = \begin{pmatrix} -1 & 5 \\ 7 & 4 \end{pmatrix}$$

$$\mathbf{C} = \begin{pmatrix} -3 \\ 2 \end{pmatrix}$$

Work out the matrix **ABC**