

9th June

Corbettmaths

The line passing through $(3, -4)$ and $(m, 10)$ has a gradient of 1.25

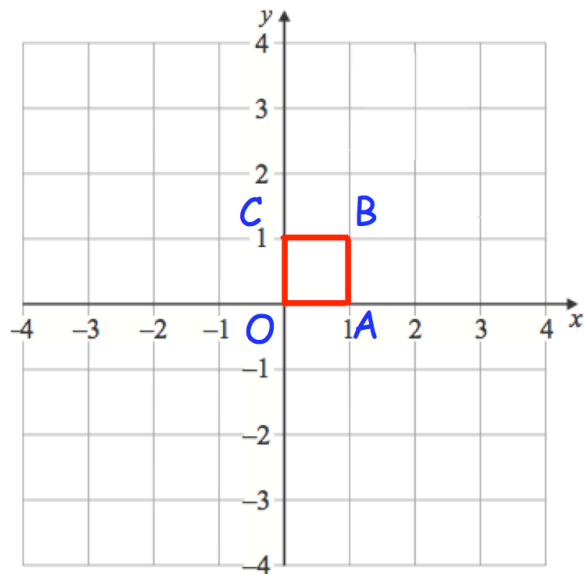
Find m .

OABC is transformed by the matrix

$$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$$

to give OA'B'C'

Draw and label OA'B'C'



Describe the transformation fully.

A curve has equation

$$y = 4x^3 - 15x^2 - 18x + 2$$

Find the stationary points and their nature.