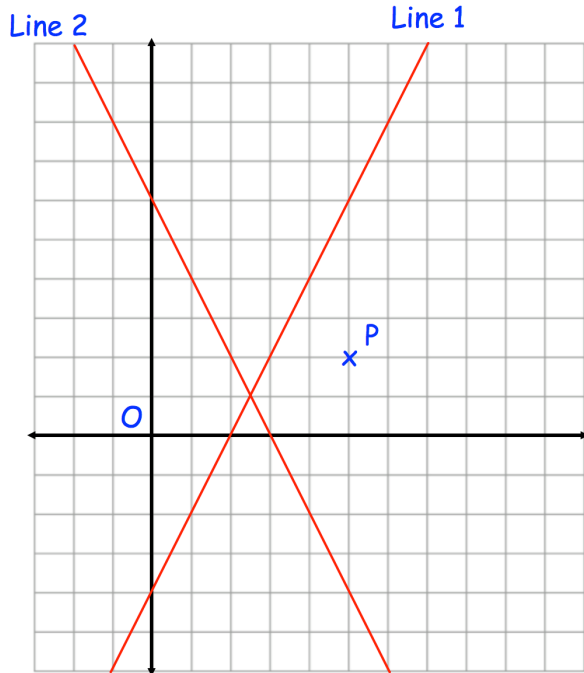


9th March



Corbettmaths



Line 1 has equation  $y = 3x - 12$

Find the coordinates of P

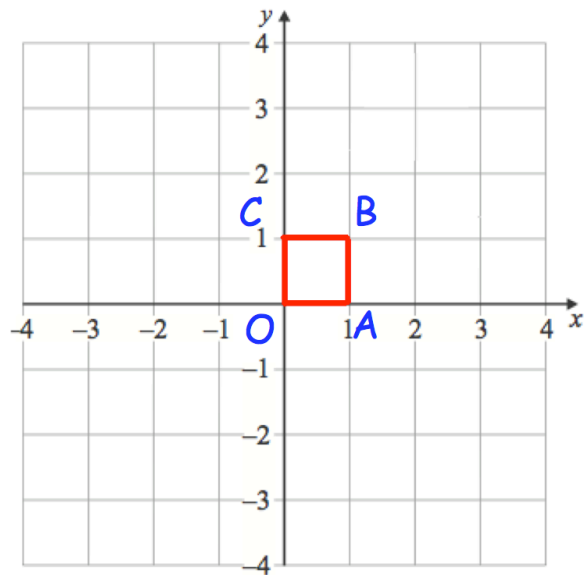
Find the equation of Line 2

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.

Find the coordinates of the stationary points of the curve

$$y = \frac{1}{3}x^3 + 5x^2 + 21x + 3$$