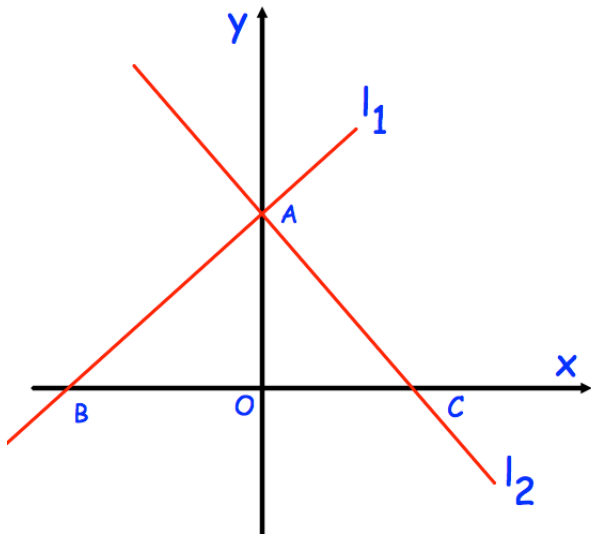


13th May



Corbettmaths



Line L1 has equation $3x - 4y + 20 = 0$

Line L2 is perpendicular to L1

Find the equation of line L2

Find the area of triangle ABC

The curve C has equation

$$y = x^2(x - 1) + \frac{2}{x}$$

The points A and B lie on C and have x-coordinates 1 and 4.

Find the length of AB

The equation $x^2 + (k - 2)x - k + 5 = 0$ has no real roots

Find the set of possible values of k.

Show that the curve

$y = x^2 - 4x + 7$ and the line $y = x - 1$ do not intersect.