

30th June



Corbettmaths

Evaluate

$$\left(1 \frac{11}{25}\right)^{-\frac{1}{2}}$$

The line l_1 has equation $2x + 3y + 5 = 0$
 The line l_2 has equation $y = 8x - 10$

The line l_1 crosses the x -axis at the point
 A.

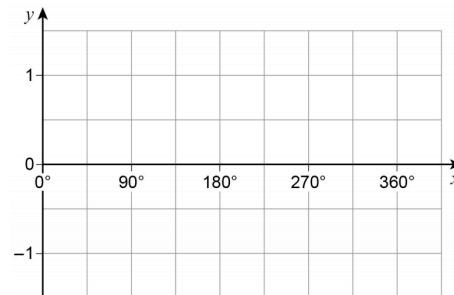
The line l_2 crosses the y -axis at the point
 B.

Find the distance AB.

x is directly proportional to w^2
 When $w = 4$, $x = 48$
 y is inversely proportional to x^3
 When $x = 2$, $y = 14$
 Find a formula for y in terms of w .
 Give your answer in its simplest
 form.

$$f(x) = \sin x$$

$$g(x) = x - 90$$

Draw $y = fg(x)$ 

There are n counters in a bag.
 Two counters are white and the rest
 are green.
 Two counters are taken from the
 bag at random.

Find the probability, in terms of n , that both counters are green.