

29th December



Corbettmaths

Estimate  $\sqrt{70}$ 

$$4.1 / 4.2$$

Write down the equation of a line perpendicular to  $y = 2x - 3$

$$y = -\frac{1}{2}x + 4$$

A rectangular garden is 5m longer than it is wide.

The area of the garden is  $600\text{m}^2$   
Calculate the width and length of the garden.

$$x(x+5) = 600$$

$$x^2 + 5x - 600 = 0$$

using Quadratic formula:

$$x = 22.12\text{m}$$

$$\text{width } 22.12 \quad \text{length } 27.12$$

$$s = ut + \frac{1}{2}at^2$$

$$2s = 2ut + at^2$$

$$at^2 = 2s - 2ut$$

Make a the subject

$$a = \frac{2s - 2ut}{t^2}$$

Simplify  $\sqrt{800}$

$$\sqrt{400} \times \sqrt{2}$$

$$20\sqrt{2}$$