

**23rd March**

Corbettmaths

Which is smaller?

$$(x + 3)^2 \text{ or } x^2 + 6x + 7$$

Solve

$$5x^2 - 31x + 6 = 0$$

Work out

$$27^{2/3}$$

Show  $x^2 - 5x + 1 = 0$  has a solution between 4 and 5.Show  $x^2 - 5x + 1 = 0$  can be written in the form

$$x = 5 - \frac{1}{x}$$

Starting with  $x_0 = 4$ , use the iteration formula

$$x_{n+1} = 5 - \frac{1}{x_n}$$

twice to find an approximate solution of  $x^2 - 5x + 1 = 0$