

21st April

Corbettmaths

Show the equation

$$x^3 + 6x = 25$$

has a solution between 2 and 3.

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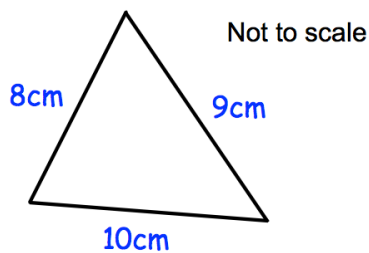
can be rearranged to give

$$x = \sqrt[3]{25 - 6x}$$

Starting with $x_0 = 0$

use the iteration formula

$$x_{n+1} = \sqrt[3]{25 - 6x_n}$$

three times to find an estimate for
the solution of $x^3 + 6x = 25$ 

Find the area of the triangle

The graph $y = x^2 + 9x - 10$ has a line
of symmetry.Write down the equation of the line of
symmetry.