



Show the equation

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

has a solution between 2 and 3.

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

can be rearranged to give

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

Starting with $x_0 = 0$

use the iteration formula

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

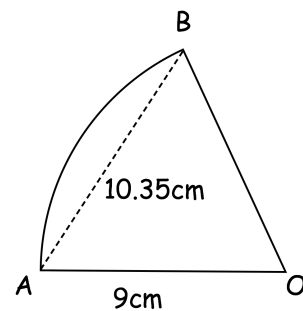
three times to find an estimate for the solution of $x^3 + 6x = 25$

Shown is sector OAB.

O is the centre of the circle.

AB is a chord with length 10.35cm

Find the area of the sector OAB.



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

Write down the equation of the line of symmetry.