



# Numerical Methods

You can use iteration to find approximations for  $f(x) = 0$ , to any desired degree of accuracy...

Show that the iteration formulae:

$$x_{n+1} = \sqrt{5x_n + 3} \quad x_{n+1} = \frac{x_n^2 - 3}{5}$$

Give different roots of the equation:

$$x^2 - 5x - 3 = 0$$

Use  $x_0 = 5$

$$x_{n+1} = \sqrt{5x_n + 3} \quad x_0 = 5$$

$$x_1 = \sqrt{5(5) + 3} \quad x_1 = 5.29\dots$$

$$x_2 = \sqrt{5(5.29\dots) + 3} \quad x_2 = 5.4274\dots$$

$$x_3 = \sqrt{5(\text{Ans}) + 3} \quad x_3 = 5.489\dots$$

$$x_4 = \sqrt{5(\text{Ans}) + 3} \quad x_4 = 5.51\dots$$

$x_4$  is usually enough unless specified!

# Numerical Methods Exercise Solutions

**Y Pai**

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