

AQA, OCR, Edexcel

GCSE

GCSE Maths

Iterative Methods Answers

Name:

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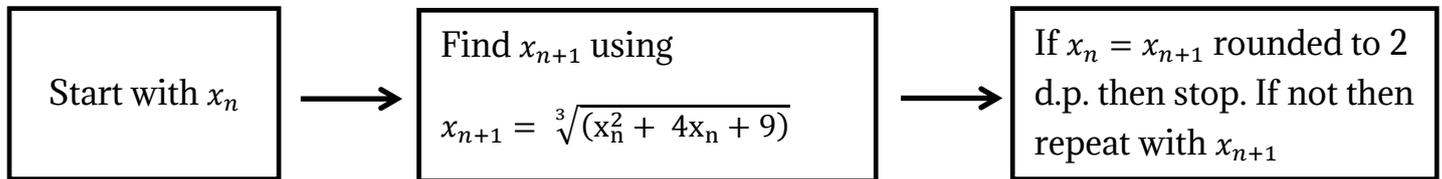
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Mathsmadeeasy.co.uk

Total Marks: /12

Iterative Methods

1. Use the Iteration machine to find the solution of $x^3 - x^2 - 4x - 9 = 0$ to 2dp.
Start with $x_0 = 3$.



(4 Marks)

$$x_4 = 3.1613$$

2. $x^3 - 8x^2 - 3x - 9 = 0$ has a solution between 8 and 9. Use the decimal search method to find the solution to 1 d.p.

$$= 8.5$$

(3 marks)

3. Using iterative methods, find the solution of $-x^3 + 2x + 1 = 0$ using $x_0 = 0.5$, correct to 2 d.p.

$$= 1.62$$

(5 marks)