

AQA, OCR, Edexcel

GCSE

GCSE Maths

**Trial and Improvement
Questions**

Name:

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Mathsmadeeasy.co.uk

Total Marks: /24

Trial and Improvement

1. Use trial and improvement to find the value of x in the equation $2x^3 + 4x = 80$ to 1 decimal place.

(4 marks)

2. Use trial and improvement to find the value of b in the equation $4b^3 + b = 1000$ to 1 decimal place.

(4 marks)

3. Use trial and improvement to prove that $3x^2 + 2x = 101.75$ for a value of x between 5.2 and 5.6.

4.

(3 marks)

5. Use trial and improvement to find the value of x in the equation $2x^2 + x = 80$ to 2 decimal places.

6.

(4 marks)

7. Use trial and improvement to find the value of x in the equation $x^3 - 2x^2 = 100$ to three decimal places for a value of x between 5.0 and 5.5. (Hard)

(5 Marks)

8. Use trial and improvement to find the value of x to two decimal places for the following equation, where x is between 1.5 and 1.9. (Very Hard)
 $(2x)^4 - x^3 - 2x^2 = 100$

(4 Marks)