

## TRIAL AND IMPROVEMENT – PRACTICE QUESTIONS



metatutor

1.

A solution to the equation  $2x^2 + 7x - 3 = 0$  lies between 0 and 1.

Use trial and improvement to find this solution to 1 decimal place.

The table has been started for you.

<b>x</b>	<b>Value</b>	<b>Too big or too small?</b>
0.5	1	Too big
0.4		

2.

A solution to the equation  $3x^2 - 5x + 1 = 0$  lies between 1 and 2.

Use trial and improvement to find this solution to 1 decimal place.

<b>x</b>	<b>Value</b>	<b>Too big or too small?</b>

3.

A solution to the equation  $3x^3 - 5x^2 = 23$  lies between 2 and 3.

Use trial and improvement to find this solution to 1 decimal place.

<b>x</b>	<b>Value</b>	<b>Too big or too small?</b>

4.

A solution to the equation  $6x^3 + 5x = 50$  lies between 1 and 2.

Use trial and improvement to find this solution to 1 decimal place.

5.

A solution to the equation  $x^3 + 6x^2 - 5x = 75$  lies between 3 and 4.

Use trial and improvement to find this solution to 1 decimal place.

6.

A solution to the equation  $x^3 - 4x^2 + 11x = 90$  lies between 5 and 6.

Use trial and improvement to find this solution to 1 decimal place.

7.

A solution to the equation  $3x^3 + 10x^2 - 12x = 50$  lies between 2 and 3.

Use trial and improvement to find this solution to 1 decimal place.

8.

A solution to the equation  $5x^2 - 11x = 15$  lies between 3.1 and 3.2.

Use trial and improvement to find this solution to 2 decimal places.

9.

A solution to the equation  $3x^3 + 4x^2 + 5x = 100$  lies between 2.6 and 2.7.

Use trial and improvement to find this solution to 2 decimal places.

10.

A solution to the equation  $2x^3 + 9x + 15 = 0$  lies between -2 and -1.

Use trial and improvement to find this solution to 1 decimal place.

11.

A solution to the equation  $2x^3 + 5x + 100 = 0$  lies between -4 and -3.

Use trial and improvement to find this solution to 1 decimal place.

12.

A solution to the equation  $2x^3 - 11x^2 - 22x + 16 = 0$  lies between 6 and 7.

Use trial and improvement to find this solution to 1 decimal place.

13.

A solution to the equation  $3x^3 - 2x^2 + 9x - 9 = 0$  lies between 0.9 and 1.0.

Use trial and improvement to find this solution to 2 decimal places.