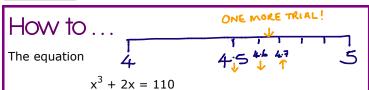
JustMaths

Trial & Improvement



has a solution between 4 and 5. Use a trial and improvement method to find this solution.

Give your answer correct to 1 decimal place. You must show **all** your working

Show an your working			
	∞	$x^3 + 2x = 10$	Comment
	4.5	4·5³+2×4·5 = 100·125	Toosmall
hone i	4.7	4:7 ³ +2×4:7 = 13:223	Too large
whic	4.6	IO6.536	too small
	465	465³+2×4·65 : 109·84462S	toosmall so use largest of (4)
		3	x=47

Now have a go yourself

Q1. The equation $x^3 + 3x = 41$ has a solution between 3 and 4. Use a trial and improvement method to find this solution. Give your answer correct to one decimal place. You must show **all** your working.

Q2. Use trial and improvement to solve this problem.

$$x^3 - 2x = 7$$

Give your answer to 1 decimal place. Show all your trials and their outcomes.

Q3. The equation $2x^2 + x = 7$ has a solution between x = 1 and x = 2. Use trial and improvement to find this solution correct to 1 decimal place.

Exam Questions

Q1. Show that the equation $x^3 + 3x - 7 = 0$ has a solution between x = 1 and x = 2.

Using trial and improvement, find this solution correct to 1 decimal place. Show all your trials and their outcomes.

Q2. The equation $x^3 - 6x = 72$ has a solution between 4 and 5. Use a trial and improvement method to find this solution.

Give your answer correct to one decimal place.

You must show all your working.

Q3. The equation

$$x^3 - 3x = 15$$

has a solution between 2 and 3. Use a trial and improvement method to find this solution.

Give your answer correct to 1 decimal place. You must show **all** your working

Ready to be marked?

	Checklist		
1	Answers checked		
	"one more" trial completed		
	Keywords		
◎ □			
at Ar	Things to remember		
2 (M) of o			
	What wast wall		
. @	What went well		
	What went well		