

Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- 3. Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

Revision for this topic

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Video 116





has a solution between 7 and 8.

Use trial and improvement to find this solution. Give your answer to one decimal place.

×	x ² + x	Comment

x =(4)

2. The equation $x^2 - 2x = 12$



has a solution between 4 and 5.

Use trial and improvement to find this solution. Give your answer to one decimal place.

×	x ² - 2x	Comment
_		

x =(4)

3. The equation $x^3 + 3x = 32$



has a solution between 2 and 3.

Use trial and improvement to find this solution. Give your answer to one decimal place.

×	x ³ + 3x	Comment
_		
~		

x =(4)



$$x^3 + 2x = 50$$

has a solution between 3 and 4.



$$x^3 + 4x = 170$$

has a solution between 5 and 6.



$$(x + 1)(x + 3) = 84$$

has a solution between 7 and 8.





$$2x^2 + 3x = 50$$

has a solution between 4 and 5.





$$x^3 + 2x^2 = 40$$

has a solution between 2 and 3.







The volume of the cuboid is 500cm³. An expression for the volume of the cuboid is $x^3 + 4x^2$

Use trial and improvement to find the value of x to 1 decimal place.

