TRIAL AND IMPROVEMENT METHOD

Pearson Edexcel - Thursday 9 June 2016 - Paper 2 (Calculator) Higher Tier

1.

7 The equation

 $x^3 - 5x = 34$

has a solution between 3 and 4

Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place. You must show all your working.

x = _____

(Total for Question 7 is 4 marks)

Pearson Edexcel - Monday 8 June 2015 - Paper 2 (Calculator) Higher Tier

2.

2	The	equation	

 $x^3 - x^2 = 30$

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.

(Total for Question 2 is 4 marks)

Pearson Edexcel - Friday 7 November 2014 - Paper 2 (Calculator) Higher Tier

3.

10 The equation

 $x^3 - 2x = 125$

has a solution between 5 and 6

Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place. You must show all your working.

r =

Pearson Edexcel - Friday 14 June 2013 - Paper 2 (Calculator) Higher Tier

4.

10 The equation

$$x^3 + 2x = 110$$

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.

x = _____

(Total for Question 10 is 4 marks)

Pearson Edexcel - Monday 4 March 2013 - Paper 2 (Calculator) Higher Tier

5.

8			ion

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.

Y =		

(Total for Question 8 is 4 marks)

Pearson Edexcel - Thursday 8 November 2012 - Paper 2 (Calculator) Higher Tier 6.

11 The diagram shows a cube and a cuboid.

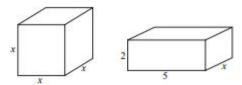


Diagram NOT accurately drawn

All the measurements are in cm.

The volume of the cube is 100 cm3 more than the volume of the cuboid.

(a) Show that $x^3 - 10x = 100$

(2)

(b) Use a trial and improvement method to find the value of x. Give your answer correct to 1 decimal place. You must show all your working.

X	=	
		(4)

(Total for Question 11 is 6 marks)

Pearson Edexcel - Wednesday 13 June 2012 - Paper 2 (Calculator) Higher Tier

11	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.

Pearson Edexcel - Monday 5 March 2012 - Paper 4 (Calculator) Higher Tier 8.

6. 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.

(Total for Question 11 is 4 marks)

Pearson Edexcel - Friday 10 June 2011 - Paper 4 (Calculator) Higher	Tier
9.	

	100.0		- 1	
12.	The	equ	ıatı	on

$$x^3 + 5x = 67$$

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.

<i>x</i> =	
(Total 4 mar	else)

Pearson Edexcel - Friday 11 June 2010 - Paper 4 (Calculator) Higher Tier 10.

8. The equation

$$x^3 + 10x = 25$$

has a solution between 1 and 2

Use a trial and improvement method to find this solution. Give your answer correct to one decimal place. You must show all your working.

Pearson Edexcel - Tuesday 10 November 2009 - Paper 4 (Calculator) Higher Tier

11.

14. The equation

 $x^3 + 2x = 60$

has a solution between 3 and 4

Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place. You must show all your working.

x =(Total 4 marks)

AQA GSCE – Sample Paper 1 (Non - Calculator) Higher Tier 12.

Out	be A has a surface area of 150 cm ²	
Cub	be B has sides half the length of cube A	
Wha	at is the volume of cube B?	
To	solve this problem, Steph decides to	
•	halve the surface area	
•	calculate the square root of the answer	
•	then divide by 6	
•	then cube this answer to work out the volume.	
Eva	aluate Steph's method.	
		[2 marks]
		[2 marks]
_		[2 marks]
_		[2 marks]
		[2 marks]
		[2 marks]
		[2 marks]

22

Steph is solving a problem.