

Exit Ticket H4 - Trial and Improvement

Name:			Date:
Which of these is a go	od idea for the next s	tep to	Correct Answer: A B C D
solve this equation by trial and improvement?			Explanation:
A) Try x = 1.01	Solve $x^3 + 2x = 6$ (to 1 d.p)		
B) Try x = 3	$ \begin{array}{c c} x & x^3 + 2x \\ \hline 1 & 1^3 + 2 \times 1 = 3 \end{array} $	6 too small	
C) Try x = 1.3	2 2 ³ + 2 x 2 = 12	too big	
D) Try x = 1.9			
Which of these is a good idea for the next step to solve this equation by trial and improvement?			Correct Answer: A B C D
			Explanation:
A) Try $x = 1.4$	Solve $x^3 + 2x = 6$ (to 1 d.p)		
B) Try x = 1.31 $\frac{x}{1}$		6 too small	
C) Try x = 3		too big	
D) Try x = 1.2			
What is the answer to this trial and			Correct Answer: A B C D
improvement question	n?		Explanation:
A) $x = 1.45$	Solve $x^3 + 2x = 6$ (to 1 d.	p)	
B) x = 1.4	$\begin{array}{c c} x & x^3 + 2x \\ \hline 1 & 1^3 + 2 \times 1 = 3 \end{array}$	too small	
C) $x = 1.5$	2 $2^3 + 2 \times 2 = 12$ 1.3 $1.3^3 + 2 \times 1.3 = 4.797$	too big too small	
D) You don't know as	1.4	too small	
you have not got an	1.45 1.45 ³ + 2 x 1.45 = 5.948	too small	
answer of 6 yet			