

Trial and Improvement

Using trial and improvement, find the solution to the following equations to 1 decimal place. A suggested starting value is given for the first three equations

1) $x^3 - 5x = 20$ start at $x = 3$

2) $x^3 + 2x = 50$ start at $x = 3$

3) $x^3 + x^2 = 100$ start at $x = 4$

Now solve the following equations:

1) $x^3 + 2x^2 = 70$

2) $x^3 - 7x = 27$

3) $x^3 + x^2 + 3x = 98$

4) $x^3 + 2x^2 - 5x = 70$

5) $x^2 + \frac{1}{x} = 30$

6) $x - \frac{3}{x} = 20$

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