

Solving Equations Using Square and Cube Roots

Solve the equations. Round to the nearest tenth if necessary.

1. $x^2 = 81$

2. $x^2 = 91$

3. $x^3 = 512$

4. $4x^2 = 20$

5. $-6x^2 = -414$

6. $7x^3 = 56$

7. $-5x^2 = -500$

8. $16x^2 = 49$

9. $x^3 - 5 = 1723$

10. $x^2 - 5 = -4$

11. $n^2 + 8 = 80$

12. $x^3 + 7 = 1338$

13. $7x^2 + 1 = 29$

14. $9x^2 + 10 = 91$

15. $2x^3 - 8 = 424$

Solve the equations. Round to the nearest tenth if necessary.

16. $2x^2 + 10 = 210$

17. $8x^2 - 6 = 306$

18. $3x^3 + 5 = 2192$

19. $10x^2 - 10 = 470$

20. $8x^2 - 7 = 193$

21. $4x^3 - 8 = 1364$

22. $4x^2 + 1 = 325$

23. $3 - 4x^2 = -85$

24. $5 - 7x^3 = -870$

25. $\frac{3}{4}x^2 = \frac{1}{4}$

26. $\frac{2}{5}x^2 = \frac{5}{8}$

27. $\frac{8}{1000}x^3 = \frac{8}{125}$

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