Name: _____

Solving Square and Cube Root Equations

Solve each equation. Square-root equations have two answers.

1. $x^2 = 81$ x = _____
2. $x^2 = 49$ x = _____
3. $x^3 = 8$ x = _____
4. $x^2 = 196$ x = _____
5. $x^2 = 225$ x = _____
6. $x^3 = 64$ x = _____
7. $x^2 = 100$ x = _____
8. $x^2 = 121$ x = _____
9. $x^2 = 9$ x = _____
10. $x^3 = 216$ x = _____
11. $x^3 = 125$ x = _____
12. $x^2 = 169$ x = _____
13. $x^2 = 4$ x = _____
14. $x^2 = 144$ x = _____
15. $x^2 = 25$ x = _____
16. $x^2 = 16$ x = _____
17. $x^2 = 36$ x = _____
18. $x^3 = 27$ x = _____

Name: **ANSWER KEY**

Solving Square and Cube Root Equations

Solve each equation. Square-root equations have two answers.

1. $x^2 = 81$ $x =$ ±9
2. $x^2 = 49$ $x =$ ±7
3. $x^3 = 8$ $x =$ 2
4. $x^2 = 196$ $x =$ ±14
5. $x^2 = 225$ $x =$ ±15
6. $x^3 = 64$ $x =$ 4
7. $x^2 = 100$ $x =$ ±10
8. $x^2 = 121$ $x =$ ±11
9. $x^2 = 9$ $x =$ ±3
10. $x^3 = 216$ $x =$ 6
11. $x^3 = 125$ $x =$ 5
12. $x^2 = 169$ $x =$ ±13
13. $x^2 = 4$ $x =$ ±2
14. $x^2 = 144$ $x =$ ±12
15. $x^2 = 25$ $x =$ ±5
16. $x^2 = 16$ $x =$ ±4
17. $x^2 = 36$ $x =$ ±6
18. $x^3 = 27$ $x =$ 3