

Solving Equations with Square Roots part 2

Date _____ Period _____

Solve each equation by taking square roots.

1) $x^2 = 16$

2) $n^2 = -27$

3) $n^2 = 80$

4) $r^2 = 0$

5) $v^2 = -87$

6) $-5n^2 = -100$

7) $-4x^2 = -268$

8) $x^2 + 6 = 78$

9) $9k^2 = 25$

10) $-7p^2 = -28$

11) $9n^2 - 6 = 75$

12) $3x^2 - 3 = -15$

13) $100x^2 - 9 = 55$

14) $4b^2 - 1 = 215$

15) $2n^2 - 8 = 122$

16) $-5 - 4m^2 = -42$

17) $-2 - 2r^2 = -18$

18) $4x^2 + 4 = 400$

19) $-6 - 2x^2 = -31$

20) $64a^2 - 1 = 8$

Answers to Solving Equations with Square Roots part 2 (ID: 1)

1) $\{4, -4\}$

5) No solution

9) $\left\{\frac{5}{3}, -\frac{5}{3}\right\}$

13) $\left\{\frac{4}{5}, -\frac{4}{5}\right\}$

17) $\{2\sqrt{2}, -2\sqrt{2}\}$

2) No solution

6) $\{2\sqrt{5}, -2\sqrt{5}\}$

10) $\{2, -2\}$

14) $\{3\sqrt{6}, -3\sqrt{6}\}$

18) $\{3\sqrt{11}, -3\sqrt{11}\}$

3) $\{4\sqrt{5}, -4\sqrt{5}\}$

7) $\{\sqrt{67}, -\sqrt{67}\}$

11) $\{3, -3\}$

15) $\{\sqrt{65}, -\sqrt{65}\}$

19) $\left\{\frac{5\sqrt{2}}{2}, -\frac{5\sqrt{2}}{2}\right\}$

4) $\{0\}$

8) $\{6\sqrt{2}, -6\sqrt{2}\}$

12) No solution

16) $\left\{\frac{\sqrt{37}}{2}, -\frac{\sqrt{37}}{2}\right\}$

20) $\left\{\frac{3}{8}, -\frac{3}{8}\right\}$