

Review: Solving Quadratic Equations: Square Roots

Solve each equation. Check your solutions.

1) $x^2 = 16$

2) $x^2 = -16$

3) $x^2 = 12$

4) $6k^2 = 24$

5) $2w^2 = 16$

6) $x^2 - 5 = 0$

7) $x^2 - 8 = 0$

8) $3x^2 - 120 = 0$

9) $4x^2 - 3 = 0$

10) $10x^2 - 20 = 180$

11) $3x^2 - 9 = 0$

12) $5x^2 + 125 = 0$

Answers:

1) ± 4

2) \emptyset

3) $\pm 2\sqrt{3}$

4) ± 2

5) $\pm 2\sqrt{2}$

6) $\pm\sqrt{5}$

7) $\pm 2\sqrt{2}$

8) $\pm 2\sqrt{10}$

9) $\pm \frac{\sqrt{3}}{2}$

10) $\pm 2\sqrt{5}$

11) $\pm\sqrt{3}$

12) \emptyset