

1. Solve $x^2 = 49$.

Root both sides, $\pm$

Answer: $x = 7$ or -7

2. Solve $x^2 = 100$.

± 10

Answer: $x = 10$ or -10

3. Solve $x^2 - 9 = 0$.

$x^2 = 9$

Answer: $x = 3$ or -3

4. Solve $x^2 = 20$ (simplest radical form).

$x = \pm\sqrt{20} = \pm 2\sqrt{5}$

Answer: $x = \pm 2\sqrt{5}$

5. Solve $2x^2 = 72$.

$x^2 = 36$

Answer: $x = 6$ or -6

6. Solve $(x - 3)^2 = 16$.

$x - 3 = \pm 4$

Answer: $x = 7$ or -1

7. Solve $\sqrt{x} = 5$.

Square both sides

Answer: $x = 25$

8. Solve $x^2 + 5 = 41$.

$x^2 = 36$

Answer: $x = 6$ or -6

9. Solve $(x + 2)^2 = 18$ (simplest radical form). ★ challenge

$x + 2 = \pm 3\sqrt{2}$

Answer: $x = -2 \pm 3\sqrt{2}$

10. Solve $3(x - 1)^2 = 48$. ★ challenge

$(x - 1)^2 = 16$

$x - 1 = \pm 4$

Answer: $x = 5$ or -3