

Solve Radical Equations

Solve each radical equation. Be sure to check your solutions.

a) $\sqrt{x+6} = 3$

b) $2\sqrt{x+3} = 6$

c) $\sqrt{x+3} - 6 = 3$

d) $16 = 8 + \sqrt{x}$

e) $\sqrt{3x-5} = 7$

f) $\sqrt{2x-3} = \sqrt{10-x}$

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Solve each radical equation. Be sure to check your solutions.

a) $\sqrt{x+6} = 3$

$$x = 3$$

b) $2\sqrt{x+3} = 6$

$$x = 6$$

c) $\sqrt{x+3} - 6 = 3$

$$x = 78$$

d) $16 = 8 + \sqrt{x}$

$$x = 64$$

e) $\sqrt{3x-5} = 7$

$$x = 18$$

f) $\sqrt{2x-3} = \sqrt{10-x}$

$$x = \frac{13}{3}$$

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