

Radical equations

Solve each equation. Remember to check for extraneous solutions.

1) $-12 = -6\sqrt{x+3}$

2) $7 = \sqrt{9x} - 2$

3) $6 = 5 + \sqrt{x}$

4) $\sqrt{2x-7} = \sqrt{8-x}$

5) $\sqrt{2x-15} = \sqrt{x-4}$

6) $x = \sqrt{70-3x}$

7) $x = \sqrt{90-x}$

8) $x = \sqrt{-21+10x}$

9) $x-1 = \sqrt{6x-15}$

10) $x = 2 + \sqrt{7x-20}$

11) $x+1 = \sqrt{6x+13}$