

Assignment: Radical Equation

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{20x} = 10$

2) $r = \sqrt{-48 + 14r}$

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

4) $\sqrt{3p + 1} = \sqrt{4p}$

5) $\sqrt{2x + 4} - \sqrt{2x + 1} = 1$

6) $\sqrt{4p + 5} = -3 - \sqrt{9 - p}$

7) $-1 = \sqrt{-3 - 3x} - \sqrt{-4 - 5x}$

8) $\sqrt{51 - 5x} + 3 = x$

9) $-11 = \sqrt{-5b + 51} - b$

10) $\sqrt{32 - 7a} - a = -6$

Answers to Assignment: Radical Equation

1) $\{5\}$

5) $\{0\}$

9) No solution.

2) $\{8, 6\}$

6) No solution.

10) No solution.

3) $\{-4\}$

7) $\{-4, -1\}$

4) $\{1\}$

8) $\{7\}$

