

Solving Equations with Radicals Practice

Date _____ Period _____

Solve each equation. Remember to check for extraneous solutions.

1) $\sqrt{\frac{x}{7}} = 5$

2) $1 = \sqrt{a-4}$

3) $\sqrt{7p-7} = 7$

4) $1 = \sqrt{p-9}$

5) $9 = 1 + \sqrt{\frac{n}{8}}$

6) $8\sqrt{2x-8} = 16$

7) $-7 + \sqrt{8p} = 1$

8) $40 = 10\sqrt{9-x}$

9) $\sqrt{x+4} = \sqrt{3x-4}$

10) $\sqrt{4x} = \sqrt{3x+2}$

11) $\sqrt{-4-2x} = \sqrt{2x+12}$

12) $\sqrt{3r+36} = \sqrt{-9-2r}$