

7.5 Solving Equations with Square roots and Radical Exponents

Period _____

Solve each equation. Remember to check for extraneous solutions.

1) $-6\sqrt{-2-a} = -12$

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

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

4) $7 = \sqrt{n+3}$

5) $-4 + \sqrt{-2-2x} = 0$

6) $\sqrt{1-10x} + 5 = 14$

Solve each equation.

7) $22 = (a-9)^{\frac{5}{6}} - 10$

8) $-9 + (a-9)^{\frac{5}{4}} = 23$

9) $16 = (-46-2a)^{\frac{4}{3}}$

10) $-1 + n^{\frac{3}{2}} = 124$

11) $32 = (8m)^{\frac{5}{6}}$

12) $16 = (p+15)^{\frac{4}{5}}$