

# Solving Radical Equations Practice

Date \_\_\_\_\_

Solve each equation. Remember to check for extraneous solutions.

1)  $\sqrt{1-3n} = \sqrt{-1-5n}$

2)  $-10 = -2\sqrt{\frac{b}{8}}$

$b = 200$

3)  $-25 = -5\sqrt{b+10}$

4)  $\sqrt{3n-5} = \sqrt{2n-3}$

$n = 2$

5)  $m-4 = \sqrt{4m-4}$

6)  $a = \sqrt{-35+12a}$

$a = 7, 5$

7)  $\sqrt{-8+9v} = v$

8)  $-5 = \sqrt{3n-11} - n$

$n = 9$

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

10)  $1 + \sqrt{9-2x} = \sqrt{2x-4}$

$x = 4$

Solve each equation.

11)  $5x^{\frac{3}{2}} = 1080$

$x = 36$

12)  $-4(k-3)^{\frac{3}{2}} = -256$

$k = 19$

13)  $625 = (124x+1)^{\frac{4}{3}}$

$x = 1, -\frac{63}{62}$

14)  $(5p+14)^{\frac{4}{3}} = 256$

$p = 10, -7\frac{8}{5}$