College Math

Name_____

Solving Review

Date_____

Solve each equation.

1) $-4(x-1) = -(-1+5x)$

$\{-3\}$

2) $2r - 2r = -6(r+4) - 8(r-3)$

$\{0\}$

3) $-4x - (1-2x) = -6x + 4(x-6)$

No solution.

4) $2(-4n-6) + n = 2(-8-4n)$

$\{-4\}$

5) $3(v+2) = -4(v-5)$

$\{2\}$

6) $-8(6+3n) = -8(1-2n)$

$\{-1\}$

7) $-2(x+5) = -8(x-4)$

$\{7\}$

8) $-4(2p-7) = 3p + 5(p-4)$

$\{3\}$

9) $-5(3n - 4) = -5(n + 4)$

$\{4\}$

10) $13 + 6x = -6(1 - x)$

No solution.

Solve each equation by taking square roots.

11) $10x^2 + 5 = 1005$

$\{10, -10\}$

12) $4n^2 - 6 = -2$

$\{1, -1\}$

13) $9r^2 + 6 = 447$

$\{7, -7\}$

14) $8v^2 - 6 = 626$

$\{\sqrt{79}, -\sqrt{79}\}$

15) $10x^2 + 5 = 315$

$\{\sqrt{31}, -\sqrt{31}\}$

16) $5r^2 + 6 = 366$

$\{6\sqrt{2}, -6\sqrt{2}\}$