

Solving Quadratics Practice (L1, L2)

Date _____ Period _____

Solve each equation by factoring.

$$1) r^2 + 4r - 32 = 0 \quad \begin{array}{r} -32 \mid 4 \\ 8, -4 \mid 4 \end{array}$$

$$(r+8)(r-4) = 0$$

$$\boxed{r = -8, 4}$$

$$3) 8n^2 + 53n - 21 = 0 \quad \begin{array}{r} -11 \mid 53 \\ 56, -3 \mid 53 \end{array}$$

$$(n+5\frac{3}{8})(n-\frac{3}{8}) = 0$$

$$\boxed{n = -5\frac{3}{8}, \frac{3}{8}}$$

Solve each equation by taking square roots.

$$5) 100x^2 = 1 \quad \boxed{x = \pm \frac{1}{10}}$$

$$7) -10y^2 = -490 \quad y^2 = 49 \quad \boxed{y = \pm 7}$$

Solve each equation with the quadratic formula.

$$9) -k^2 + 9k + 10 = 0 \quad \frac{-9 \pm \sqrt{9^2 - 4(-1)(10)}}{2(-1)} = x$$

$$a = -1 \quad b = 9 \quad c = 10$$

$$\boxed{k = -1, 10}$$

$$11) -4x^2 - 6x + 54 = 0 \quad \frac{6 \pm \sqrt{6^2 - 4(-4)(54)}}{2(-4)} = x$$

$$a = -4 \quad b = -6 \quad c = 54$$

$$\boxed{x = -4.5, 3}$$

$$2) 7m^2 + 7m - 84 = 0 \quad \begin{array}{r} -12 \mid 1 \\ 4, 3 \mid 1 \end{array}$$

$$7(m^2 + m - 12) = 0$$

$$7(m+4)(m-3) = 0$$

$$\boxed{m = -4, 3}$$

$$4) 6x^2 + 4x - 10 = 0 \quad \begin{array}{r} -5 \mid 2 \\ 5, 3 \mid 2 \end{array}$$

$$2(3x^2 + 2x - 5) = 0$$

$$2(x-\frac{3}{2})(x+5) = 0$$

$$\boxed{x = 1.5, -5}$$

$$6) \frac{36x^2}{20} = 36 \quad x^2 = 1 \quad \boxed{x = \pm 1}$$

$$8) b^2 + 1 = 101 \quad b^2 = 100 \quad \boxed{b = \pm 10}$$

$$10) -5a^2 - a + 22 = 0 \quad \frac{1 \pm \sqrt{(-1)^2 - 4(-5)(22)}}{2(-5)} = x$$

$$a = -5 \quad b = -1 \quad c = 22$$

$$\boxed{x = -2.2, 2}$$

$$12) p^2 + 4p - 21 = 0 \quad \frac{-4 \pm \sqrt{4^2 - 4(1)(-21)}}{2(1)} = x$$

$$a = 1 \quad b = 4 \quad c = -21$$

$$\boxed{x = 3, -7}$$

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