

Assignment

Date _____ Period _____

Solve each equation by factoring.

1) $k^2 + 6 = 5k$

2) $p^2 = 25$

3) $x^2 + 40 = 13x$

4) $x^2 - 3x = -2$

5) $a^2 + 3 = 4a$

6) $n^2 + 21 = 10n$

7) $n^2 + 40 = -13n$

8) $v^2 - 8v = 0$

9) $16n^2 - 161n - 224 = -8n^2 + 3n$

10) $11n^2 - 40n - 32 = -8 - 5n^2$

$$11) 28n^2 + 34n - 40 = 7n^2 - 7n$$

$$12) 7n^2 - 36n + 1 = -4$$

Solve each equation with the quadratic formula.

$$13) k^2 = 25$$

$$14) -1 = -n^2$$

$$15) 0 = 2 - 2m^2$$

$$16) -9 = -x^2$$

$$17) 2n^2 + 2 = -4n$$

$$18) -7 - 5r = -2r^2$$

$$19) 4x = -2x^2 + 16$$

$$20) -21 = 4m - m^2$$

Answers to Assignment

1) $\{2, 3\}$

5) $\{1, 3\}$

9) $\left\{-\frac{7}{6}, 8\right\}$

13) $\{5, -5\}$

17) $\{-1\}$

2) $\{5, -5\}$

6) $\{3, 7\}$

10) $\left\{-\frac{1}{2}, 3\right\}$

14) $\{1, -1\}$

18) $\left\{\frac{7}{2}, -1\right\}$

3) $\{5, 8\}$

7) $\{-5, -8\}$

11) $\left\{-\frac{8}{3}, \frac{5}{7}\right\}$

15) $\{1, -1\}$

19) $\{2, -4\}$

4) $\{2, 1\}$

8) $\{8, 0\}$

12) $\left\{\frac{1}{7}, 5\right\}$

16) $\{3, -3\}$

20) $\{7, -3\}$