

Solving with Quadratic Formula

Date _____ Period _____

Solve each equation with the quadratic formula.

1) $9k^2 = -2k + 6$

2) $x^2 - 9x = 20$

3) $11p^2 = 23 - 10p$

4) $8b^2 - 12 = 0$

5) $3n^2 - 4 = 5n$

6) $6x^2 = 3x + 30$

7) $12k^2 - 11 = -8k$

8) $6v^2 = 66 + 4v$

9) $6n^2 = 11n + 35$

10) $6n^2 = 7n + 13$

11) $6x^2 + 5x = -6x + 14$

12) $2v^2 + 5v - 12 = -2v^2$

13) $5x^2 = 13$

14) $2k^2 - 28 = -k$

15) $9m^2 - 13 = -3m^2$

16) $7k^2 - 6k + 4 = -9k + 11$

17) $8x^2 + 16x - 20 = 2x^2 + 8x$

18) $19r^2 + 5r - 3 = -4 + 10r^2 - 3r$

19) $11b^2 - 16 = -6$

20) $15a^2 + 5a = 12 + 6a^2$

Solving with Quadratic Formula

Solve each equation with the quadratic formula.

1) $9k^2 = -2k + 6$

$\{0.713, -0.935\}$

2) $x^2 - 9x = 20$

$\{10.844, -1.844\}$

3) $11p^2 = 23 - 10p$

$\{1.061, -1.97\}$

4) $8b^2 - 12 = 0$

$\{1.225, -1.225\}$

5) $3n^2 - 4 = 5n$

$\{2.257, -0.591\}$

6) $6x^2 = 3x + 30$

$\{2.5, -2\}$

7) $12k^2 - 11 = -8k$

$\{0.68, -1.347\}$

8) $6v^2 = 66 + 4v$

$\{3.667, -3\}$

9) $6n^2 = 11n + 35$

$\{3.5, -1.667\}$

10) $6n^2 = 7n + 13$

$\{2.167, -1\}$

11) $6x^2 + 5x = -6x + 14$

$\{0.865, -2.698\}$

12) $2v^2 + 5v - 12 = -2v^2$

$\{1.216, -2.466\}$

13) $5x^2 = 13$

$\{1.612, -1.612\}$

14) $2k^2 - 28 = -k$

$\{3.5, -4\}$

15) $9m^2 - 13 = -3m^2$

$\{1.041, -1.041\}$

16) $7k^2 - 6k + 4 = -9k + 11$

$\{0.808, -1.237\}$

17) $8x^2 + 16x - 20 = 2x^2 + 8x$

$\{1.277, -2.61\}$

18) $19r^2 + 5r - 3 = -4 + 10r^2 - 3r$

$\{-0.15, -0.738\}$

19) $11b^2 - 16 = -6$

$\{0.953, -0.953\}$

20) $15a^2 + 5a = 12 + 6a^2$

$\{0.91, -1.465\}$