

Name _____

Using the Quadratic Formula

Date _____ Period _____

Solve each equation with the quadratic formula.

1) $m^2 - 5m - 14 = 0$

2) $b^2 - 4b + 4 = 0$

3) $2m^2 + 2m - 12 = 0$

4) $2x^2 - 3x - 5 = 0$

5) $x^2 + 4x + 3 = 0$

6) $2x^2 + 3x - 20 = 0$

7) $4b^2 + 8b + 7 = 4$

8) $2m^2 - 7m - 13 = -10$

9) $2x^2 - 3x - 15 = 5$

10) $x^2 + 2x - 1 = 2$

11) $2k^2 + 9k = -7$

12) $5r^2 = 80$

13) $2x^2 - 36 = x$

14) $5x^2 + 9x = -4$

15) $k^2 - 31 - 2k = -6 - 3k^2 - 2k$

16) $9n^2 = 4 + 7n$

17) $8n^2 + 4n - 16 = -n^2$

18) $8n^2 + 7n - 15 = -7$

Using the Quadratic Formula

Date _____ Period _____

Solve each equation with the quadratic formula.

1) $m^2 - 5m - 14 = 0$

$\{7, -2\}$

2) $b^2 - 4b + 4 = 0$

$\{2\}$

3) $2m^2 + 2m - 12 = 0$

$\{2, -3\}$

4) $2x^2 - 3x - 5 = 0$

$\{$

$, -1\}$

2

5) $x^2 + 4x + 3 = 0$

$\{-1, -3\}$

6) $2x^2 + 3x - 20 = 0$

$\{$

$, -4\}$

2

7) $4b^2 + 8b + 7 = 4$

$\{ -1 -3 7 + 73 7 - 73$

8) $2m^2 - 7m - 13 = -10$

$$\left\{ \begin{array}{l} - \\ 2 \end{array} , \begin{array}{l} - \\ 2 \end{array} \right\}$$

$$\left\{ \sqrt{\quad}, \sqrt{\quad} \right\}$$

-1-

$$9) 2x^2 - 3x - 15 = 5$$

2

$$\left\{ \begin{array}{l} 5 \\ 4, - \end{array} \right\}$$

2

$$15) k^2 - 31 - 2k = -6 - 3k^2 - 2k$$

$$\left\{ \begin{array}{l} 5 \\ 2 \end{array} , \begin{array}{l} 5 \\ 2 \end{array} \right\}$$

$$11) 2k^2 + 9k = -7$$

$$\left\{ \begin{array}{l} 7 \\ -1, - \end{array} \right\}$$

2

$$17) 8n^2 + 4n - 16 = -n^2,$$

$$\left\{ \sqrt{\quad}, \sqrt{\quad} \right\}$$

$$\begin{array}{cc} -2 + 2 & 37 \\ 9 & 9 \end{array}$$

$$13) 2x^2 - 36 = x$$

$$\left\{ \begin{array}{l} 9 \\ -4 \end{array} \right\}$$

$$10) x^2 + 2x - 1 = 2$$

$$\{1, -3\}$$

12) $5r^2 = 80$

$\{4, -4\}$

16) $9^{n^2} = 4 + 7n,$

$$\left\{ \frac{\sqrt{\quad}}{\quad} \quad \frac{\sqrt{\quad}}{\quad} \right\}$$

$$7 + \frac{193}{18} \quad 7 - \frac{193}{18}$$

14) $5x^2 + 9x = -4$

$$\left\{ \begin{array}{l} 4 \\ - \frac{\quad}{5}, -1 \end{array} \right\}$$

18) $8n^2 + 7n - 15 =$

$$\left\{ \frac{\sqrt{\quad} - 7}{\quad}, \frac{\sqrt{\quad}}{\quad} \right\}$$

$$-7 + \frac{305}{16} \quad -7 - \frac{305}{16}$$

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