Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $7v^2 - 3 = 0$

2) $5n^2 = 8n + 20$

3) $6n^2 - 17 = 0$

4) $5k^2 = -4 - 9k$

5) $9v^2 = 8 + 4v$

6) $9b^2 + 7b = 12$

7) $3b^2 - 8b = 35$

8) $5r^2 - 14 = 11r$

9) $4m^2 + m = 39$

10) $5b^2 - 40 = -10b$

11) $10x^2 = 6x - 1$

12) $12a^2 + 11 = -5a$

13) $12n^2 + 11n = 4$

14) $5m^2 = -6m + 19$

15) $2b^2 + 10b = 72$

16) $4k^2 - 3k = 45$

17) $m^2 + 6 = -7m$

18) $6x^2 - 56 = -5x$

19) $5v^2 = 45$

20) $n^2 - 2n = 143$

21) $4k^2 = 4$

22) $3n^2 = 7$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $7v^2 - 3 = 0$

   {0.655, −0.655}

2) $5n^2 = 8n + 20$

   {2.954, −1.354}

3) $6n^2 - 17 = 0$

   {1.683, −1.683}

4) $5k^2 = -4 - 9k$

   {−0.8, −1}

5) $9v^2 = 8 + 4v$

   {1.191, −0.746}

6) $9b^2 + 7b = 12$

   {0.83, −1.607}

7) $3b^2 - 8b = 35$

   {5, −2.333}

8) $5r^2 - 14 = 11r$

   {3.102, −0.902}

9) $4m^2 + m = 39$

   {3, −3.25}

10) $5b^2 - 40 = -10b$

   {2, −4}

11) $10x^2 = 6x - 1$

   No solution.

12) $12a^2 + 11 = -5a$

   No solution.

13) $12n^2 + 11n = 4$

   {0.279, −1.195}

14) $5m^2 = -6m + 19$

   {1.44, −2.64}

15) $2b^2 + 10b = 72$

   {4, −9}

16) $4k^2 - 3k = 45$

   {3.75, −3}

17) $m^2 + 6 = -7m$

   {−1, −6}

18) $6x^2 - 56 = -5x$

   {2.667, −3.5}

19) $5v^2 = 45$

   {3, −3}

20) $n^2 - 2n = 143$

   {13, −11}

21) $4k^2 = 4$

   {1, −1}

22) $3n^2 = 7$

   {1.528, −1.528}

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $12m^2 - 17 = -6m$

2) $12n^2 + 2 = 12n$

3) $11v^2 - 3v = 12$

4) $5x^2 = 45$

5) $4n^2 = 3 + 11n$

6) $8m^2 = 10$

7) $7x^2 = 13 + 11x$

8) $5b^2 + 9b = 8$

9) $4x^2 + 12x = -2$

10) $11r^2 - 13 = -5r$

11) $11k^2 - 3k = 15$

12) $p^2 = 12p + 2$

13) $b^2 = -21 + 10b$

14) $3a^2 + 3 = 0$

15) $10r^2 + 12r = 10$

16) $2a^2 = 98$

17) $x^2 = -6x + 72$

18) $9x^2 - 11x = 4$

19) $3b^2 + 5b = 22$

20) $3r^2 - 9r = 6$

21) $2v^2 = -7 - 2v$

22) $7x^2 - 12x = 5$

Algebra 1   Name_____

Assignment
Date_____ Period_____

Solve each equation with the quadratic formula.

1) $12m^2 - 17 = -6m$

   $\{0.966, -1.466\}$

2) $12n^2 + 2 = 12n$

   $\{0.789, 0.211\}$

3) $11v^2 - 3v = 12$

   $\{1.19, -0.917\}$

4) $5x^2 = 45$

   $\{3, -3\}$

5) $4n^2 = 3 + 11n$

   $\{3, -0.25\}$

6) $8m^2 = 10$

   $\{1.118, -1.118\}$

7) $7x^2 = 13 + 11x$

   $\{2.359, -0.787\}$

8) $5b^2 + 9b = 8$

   $\{0.652, -2.452\}$

9) $4x^2 + 12x = -2$

   $\{-0.177, -2.823\}$

10) $11r^2 - 13 = -5r$

   $\{0.883, -1.338\}$

11) $11k^2 - 3k = 15$

   $\{1.312, -1.039\}$

12) $p^2 = 12p + 2$

   $\{12.164, -0.164\}$

13) $b^2 = -21 + 10b$

   $\{7, 3\}$

14) $3a^2 + 3 = 0$

   No solution.

15) $10r^2 + 12r = 10$

   $\{0.566, -1.766\}$

16) $2a^2 = 98$

   $\{7, -7\}$

17) $x^2 = -6x + 72$

   $\{6, -12\}$

18) $9x^2 - 11x = 4$

   $\{1.515, -0.293\}$

19) $3b^2 + 5b = 22$

   $\{2, -3.667\}$

20) $3r^2 - 9r = 6$

   $\{3.562, -0.562\}$

21) $2v^2 = -7 - 2v$

   No solution.

22) $7x^2 - 12x = 5$

   $\{2.061, -0.347\}$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $a^2 = -11a - 6$

2) $12p^2 + p = 5$

3) $6b^2 - 5b = 69$

4) $10k^2 - 15 = 0$

5) $3n^2 - 98 = 7n$

6) $3p^2 - 8p = 128$

7) $a^2 = 24$

8) $4k^2 = -10k - 5$

9) $6x^2 + 4x = 32$

10) $5v^2 - 81 = 12v$

11) $2m^2 - 120 = m$

12) $x^2 = 7x - 12$

13) $10b^2 = 13$

14) $10b^2 - 10b = 4$

15) $2n^2 = 2 + 8n$

16) $a^2 = 4$

17) $2r^2 - 98 = 0$

18) $n^2 - 13 = 11n$

19) $5x^2 - 5x = 23$

20) $4a^2 - 10 = -3a$

21) $11v^2 + 4 = -2v$

22) $6n^2 - 16 = 11n$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $a^2 = -11a - 6$

$\{-0.576, -10.424\}$

2) $12p^2 + p = 5$

$\{0.605, -0.689\}$

3) $6b^2 - 5b = 69$

$\{3.833, -3\}$

4) $10k^2 - 15 = 0$

$\{1.225, -1.225\}$

5) $3n^2 - 98 = 7n$

$\{7, -4.667\}$

6) $3p^2 - 8p = 128$

$\{8, -5.333\}$

7) $a^2 = 24$

$\{4.899, -4.899\}$

8) $4k^2 = -10k - 5$

$\{-0.691, -1.809\}$

9) $6x^2 + 4x = 32$

$\{2, -2.667\}$

10) $5v^2 - 81 = 12v$

$\{5.4, -3\}$

11) $2m^2 - 120 = m$

$\{8, -7.5\}$

12) $x^2 = 7x - 12$

$\{4, 3\}$

13) $10b^2 = 13$

$\{1.14, -1.14\}$

14) $10b^2 - 10b = 4$

$\{1.306, -0.306\}$

15) $2n^2 = 2 + 8n$

$\{4.236, -0.236\}$

16) $a^2 = 4$

$\{2, -2\}$

17) $2r^2 - 98 = 0$

$\{7, -7\}$

18) $n^2 - 13 = 11n$

$\{12.076, -1.076\}$

19) $5x^2 - 5x = 23$

$\{2.702, -1.702\}$

20) $4a^2 - 10 = -3a$

$\{1.25, -2\}$

21) $11v^2 + 4 = -2v$

No solution.

22) $6n^2 - 16 = 11n$

$\{2.789, -0.956\}$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $10k^2 - 5k = 19$

2) $4p^2 = 3$

3) $6x^2 = 8x + 2$

4) $6n^2 = 48 + 12n$

5) $5a^2 = 2$

6) $9x^2 + 4x = 19$

7) $a^2 + 4a = 11$

8) $2n^2 = 144 - 2n$

9) $2n^2 - 44 = -3n$

10) $6n^2 - 7n = 7$

11) $6n^2 - 6 = 0$

12) $x^2 = 24$

13) $3b^2 = -11b + 13$

14) $6x^2 = 12x - 12$

15) $4v^2 = 7 - 9v$

16) $9m^2 = 20$

17) $6v^2 = 96$

18) $8x^2 = 10$

19) $m^2 = 10m - 10$

20) $3n^2 - 6n = 45$

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

22) $m^2 = 25$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $10k^2 - 5k = 19$

$\{1.651, -1.151\}$

2) $4p^2 = 3$

$\{0.866, -0.866\}$

3) $6x^2 = 8x + 2$

$\{1.549, -0.215\}$

4) $6n^2 = 48 + 12n$

$\{4, -2\}$

5) $5a^2 = 2$

$\{0.632, -0.632\}$

6) $9x^2 + 4x = 19$

$\{1.248, -1.692\}$

7) $a^2 + 4a = 11$

$\{1.873, -5.873\}$

8) $2n^2 = 144 - 2n$

$\{8, -9\}$

9) $2n^2 - 44 = -3n$

$\{4, -5.5\}$

10) $6n^2 - 7n = 7$

$\{1.811, -0.644\}$

11) $6n^2 - 6 = 0$

$\{1, -1\}$

12) $x^2 = 24$

$\{4.899, -4.899\}$

13) $3b^2 = -11b + 13$

$\{0.941, -4.607\}$

14) $6x^2 = 12x - 12$

No solution.

15) $4v^2 = 7 - 9v$

$\{0.612, -2.862\}$

16) $9m^2 = 20$

$\{1.491, -1.491\}$

17) $6v^2 = 96$

$\{4, -4\}$

18) $8x^2 = 10$

$\{1.118, -1.118\}$

19) $m^2 = 10m - 10$

$\{8.873, 1.127\}$

20) $3n^2 - 6n = 45$

$\{5, -3\}$

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

$\{1.434, 0.232\}$

22) $m^2 = 25$

$\{5, -5\}$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $6n^2 = 4$

2) $4k^2 - 1 = 7k$

3) $4m^2 = 49$

4) $11x^2 + 9x = 3$

5) $2b^2 - 24 = -2b$

6) $4n^2 + 3n = 22$

7) $6b^2 = 22$

8) $3v^2 + 6v = 144$

9) $3v^2 = 105 + 6v$

10) $3x^2 = 96 + 12x$

11) $6n^2 - 4n = 32$

12) $2n^2 + 3n = 20$

13) $2a^2 = 5a + 75$

14) $10n^2 + 8 = -3n$

15) $5p^2 - 36 = 8p$

16) $8n^2 + 9 = 7n$

17) $12x^2 - 10x = 14$

18) $5v^2 = -2$

19) $a^2 - 9a = -12$

20) $2p^2 - 19 = 8p$

21) $9x^2 - 4x = 12$

22) $2r^2 - 2 = 0$

Algebra 1   Name_____

Assignment
                                                   Date_____ Period_____

Solve each equation with the quadratic formula.

1) $6n^2 = 4$

   $\{0.816, -0.816\}$

2) $4k^2 - 1 = 7k$

   $\{1.883, -0.133\}$

3) $4m^2 = 49$

   $\{3.5, -3.5\}$

4) $11x^2 + 9x = 3$

   $\{0.254, -1.072\}$

5) $2b^2 - 24 = -2b$

   $\{3, -4\}$

6) $4n^2 + 3n = 22$

   $\{2, -2.75\}$

7) $6b^2 = 22$

   $\{1.915, -1.915\}$

8) $3v^2 + 6v = 144$

   $\{6, -8\}$

9) $3v^2 = 105 + 6v$

   $\{7, -5\}$

10) $3x^2 = 96 + 12x$

   $\{8, -4\}$

11) $6n^2 - 4n = 32$

   $\{2.667, -2\}$

12) $2n^2 + 3n = 20$

   $\{2.5, -4\}$

13) $2a^2 = 5a + 75$

   $\{7.5, -5\}$

14) $10n^2 + 8 = -3n$

   No solution.

15) $5p^2 - 36 = 8p$

   $\{3.6, -2\}$

16) $8n^2 + 9 = 7n$

   No solution.

17) $12x^2 - 10x = 14$

   $\{1.574, -0.741\}$

18) $5v^2 = -2$

   No solution.

19) $a^2 - 9a = -12$

   $\{7.372, 1.628\}$

20) $2p^2 - 19 = 8p$

   $\{5.674, -1.674\}$

21) $9x^2 - 4x = 12$

   $\{1.398, -0.954\}$

22) $2r^2 - 2 = 0$

   $\{1, -1\}$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $3p^2 - 15 = 12p$

2) $10x^2 - 8 = 7x$

3) $2x^2 - 5x = 75$

4) $3m^2 - 1 = m$

5) $10x^2 + 8x = 5$

6) $9k^2 - 2 = 0$

7) $2b^2 = 54 - 12b$

8) $3n^2 = -12n + 24$

9) $9k^2 + 2k = -10$

10) $4n^2 + 6n = 130$

11) $5m^2 + 1 = m$

12) $4k^2 = 100$

13) $4x^2 - 9 = -3x$

14) $4x^2 + 11x = 69$

15) $10r^2 = -11$

16) $9v^2 + 4v = -10$

17) $11r^2 - 19 = 0$

18) $7x^2 - 6 = 2x$

19) $8a^2 - 2a = -6$

20) $4b^2 - 11b = 119$

21) $5v^2 + 6v = 15$

22) $6a^2 - 12a = 15$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $3p^2 - 15 = 12p$

$\{5, -1\}$

2) $10x^2 - 8 = 7x$

$\{1.31, -0.61\}$

3) $2x^2 - 5x = 75$

$\{7.5, -5\}$

4) $3m^2 - 1 = m$

$\{0.768, -0.434\}$

5) $10x^2 + 8x = 5$

$\{0.412, -1.212\}$

6) $9k^2 - 2 = 0$

$\{0.471, -0.471\}$

7) $2b^2 = 54 - 12b$

$\{3, -9\}$

8) $3n^2 = -12n + 24$

$\{1.464, -5.464\}$

9) $9k^2 + 2k = -10$

No solution.

10) $4n^2 + 6n = 130$

$\{5, -6.5\}$

11) $5m^2 + 1 = m$

No solution.

12) $4k^2 = 100$

$\{5, -5\}$

13) $4x^2 - 9 = -3x$

$\{1.171, -1.921\}$

14) $4x^2 + 11x = 69$

$\{3, -5.75\}$

15) $10r^2 = -11$

No solution.

16) $9v^2 + 4v = -10$

No solution.

17) $11r^2 - 19 = 0$

$\{1.314, -1.314\}$

18) $7x^2 - 6 = 2x$

$\{1.08, -0.794\}$

19) $8a^2 - 2a = -6$

No solution.

20) $4b^2 - 11b = 119$

$\{7, -4.25\}$

21) $5v^2 + 6v = 15$

$\{1.233, -2.433\}$

22) $6a^2 - 12a = 15$

$\{2.871, -0.871\}$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $9x^2 - 3x = 1$

2) $x^2 = 121$

3) $3a^2 - 27 = 0$

4) $2b^2 - 6 = -11b$

5) $x^2 + 11 = -12x$

6) $n^2 + 4 = -3n$

7) $12x^2 + 2 = -6x$

8) $4x^2 = 22 - 3x$

9) $8r^2 - 7r = 19$

10) $5b^2 + 2b = 2$

11) $4p^2 = 2p + 2$

12) $6p^2 = -2p + 20$

13) $6p^2 + 12p = 7$

14) $4x^2 = 4 - 2x$

15) $6r^2 = 9r + 21$

16) $4x^2 = 10$

17) $4r^2 + 2r = 30$

18) $9b^2 = -3$

19) $4p^2 - 36 = 0$

20) $9m^2 - 23 = -7m$

21) $4p^2 = 64$

22) $v^2 = 9$

Algebra 1   Name_____

Assignment   Date_____ Period_____

Solve each equation with the quadratic formula.

1) $9x^2 - 3x = 1$

   {0.539, −0.206}

2) $x^2 = 121$

   {11, −11}

3) $3a^2 - 27 = 0$

   {3, −3}

4) $2b^2 - 6 = -11b$

   {0.5, −6}

5) $x^2 + 11 = -12x$

   {−1, −11}

6) $n^2 + 4 = -3n$

   No solution.

7) $12x^2 + 2 = -6x$

   No solution.

8) $4x^2 = 22 - 3x$

   {2, −2.75}

9) $8r^2 - 7r = 19$

   {2.04, −1.165}

10) $5b^2 + 2b = 2$

   {0.463, −0.863}

11) $4p^2 = 2p + 2$

   {1, −0.5}

12) $6p^2 = -2p + 20$

   {1.667, −2}

13) $6p^2 + 12p = 7$

   {0.472, −2.472}

14) $4x^2 = 4 - 2x$

   {0.781, −1.281}

15) $6r^2 = 9r + 21$

   {2.766, −1.266}

16) $4x^2 = 10$

   {1.581, −1.581}

17) $4r^2 + 2r = 30$

   {2.5, −3}

18) $9b^2 = -3$

   No solution.

19) $4p^2 - 36 = 0$

   {3, −3}

20) $9m^2 - 23 = -7m$

   {1.256, −2.034}

21) $4p^2 = 64$

   {4, −4}

22) $v^2 = 9$

   {3, −3}

Algebra 1   Name_____

Assignment   Date_____ Period_____

Solve each equation with the quadratic formula.

1) $9x^2 = 3x + 21$ 2) $6n^2 - 110 = 8n$

3) $10a^2 + 4 = -a$ 4) $4p^2 - 49 = 0$

5) $r^2 - 14 = 0$ 6) $4k^2 = 40 + 6k$

7) $5x^2 = -7x + 13$ 8) $12n^2 - 8 = 3n$

9) $5r^2 + 6r = 104$ 10) $x^2 = 7x + 60$

11) $4x^2 - 1 = 0$ 12) $3r^2 - 36 = 3r$

13) $b^2 - 100 = 0$ 14) $v^2 = 2$

15) $5x^2 - 4 = 5x$ 16) $2p^2 - 7p = 2$

17) $x^2 - 5x = 1$ 18) $2n^2 + 2n = 4$

19) $6n^2 + 11n = 46$ 20) $5n^2 + 1 = 6n$

21) $6n^2 + 5n = 39$ 22) $10x^2 - 10x = 4$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $9x^2 = 3x + 21$

$\{1.703, -1.37\}$

2) $6n^2 - 110 = 8n$

$\{5, -3.667\}$

3) $10a^2 + 4 = -a$

No solution.

4) $4p^2 - 49 = 0$

$\{3.5, -3.5\}$

5) $r^2 - 14 = 0$

$\{3.742, -3.742\}$

6) $4k^2 = 40 + 6k$

$\{4, -2.5\}$

7) $5x^2 = -7x + 13$

$\{1.058, -2.458\}$

8) $12n^2 - 8 = 3n$

$\{0.951, -0.701\}$

9) $5r^2 + 6r = 104$

$\{4, -5.2\}$

10) $x^2 = 7x + 60$

$\{12, -5\}$

11) $4x^2 - 1 = 0$

$\{0.5, -0.5\}$

12) $3r^2 - 36 = 3r$

$\{4, -3\}$

13) $b^2 - 100 = 0$

$\{10, -10\}$

14) $v^2 = 2$

$\{1.414, -1.414\}$

15) $5x^2 - 4 = 5x$

$\{1.525, -0.525\}$

16) $2p^2 - 7p = 2$

$\{3.766, -0.266\}$

17) $x^2 - 5x = 1$

$\{5.193, -0.193\}$

18) $2n^2 + 2n = 4$

$\{1, -2\}$

19) $6n^2 + 11n = 46$

$\{2, -3.833\}$

20) $5n^2 + 1 = 6n$

$\{1, 0.2\}$

21) $6n^2 + 5n = 39$

$\{2.167, -3\}$

22) $10x^2 - 10x = 4$

$\{1.306, -0.306\}$

Algebra 1   Name_____

Assignment

Date_____ Period_____

Solve each equation with the quadratic formula.

1) $6a^2 - 21 = 9a$

2) $6n^2 - 40 = 8n$

3) $4x^2 - 6x = 130$

4) $3p^2 = 2$

5) $n^2 + 4n = 10$

6) $2a^2 = 2 + 3a$

7) $x^2 - 16 = -6x$

8) $9x^2 - 2 = 0$

9) $10n^2 = -7$

10) $2a^2 - 18 = 0$

11) $3n^2 = 21$

12) $6k^2 = 11k + 35$

13) $12n^2 = 14$

14) $11p^2 - 18 = 4p$

15) $10n^2 + 10n = 3$

16) $x^2 - 48 = 8x$

17) $4r^2 = 36$

18) $6n^2 = 19 - 2n$

19) $8b^2 - 19 = 8b$

20) $6m^2 = 24$

21) $9v^2 - 5v = -5$

22) $3x^2 - 108 = 0$

Algebra 1   Name_____

Assignment   Date_____ Period_____

Solve each equation with the quadratic formula.

1) $6a^2 - 21 = 9a$

   {2.766, −1.266}

2) $6n^2 - 40 = 8n$

   {3.333, −2}

3) $4x^2 - 6x = 130$

   {6.5, −5}

4) $3p^2 = 2$

   {0.816, −0.816}

5) $n^2 + 4n = 10$

   {1.742, −5.742}

6) $2a^2 = 2 + 3a$

   {2, −0.5}

7) $x^2 - 16 = -6x$

   {2, −8}

8) $9x^2 - 2 = 0$

   {0.471, −0.471}

9) $10n^2 = -7$

   No solution.

10) $2a^2 - 18 = 0$

   {3, −3}

11) $3n^2 = 21$

   {2.646, −2.646}

12) $6k^2 = 11k + 35$

   {3.5, −1.667}

13) $12n^2 = 14$

   {1.08, −1.08}

14) $11p^2 - 18 = 4p$

   {1.474, −1.11}

15) $10n^2 + 10n = 3$

   {0.242, −1.242}

16) $x^2 - 48 = 8x$

   {12, −4}

17) $4r^2 = 36$

   {3, −3}

18) $6n^2 = 19 - 2n$

   {1.621, −1.954}

19) $8b^2 - 19 = 8b$

   {2.12, −1.12}

20) $6m^2 = 24$

   {2, −2}

21) $9v^2 - 5v = -5$

   No solution.

22) $3x^2 - 108 = 0$

   {6, −6}

Algebra 1   Name_____

Assignment   Date_____ Period_____

Solve each equation with the quadratic formula.

1) $n^2 + 16 = 11n$ 2) $3k^2 = 19$

3) $n^2 - 5 = 0$ 4) $2x^2 = 7 - 5x$

5) $11b^2 = 1 - 6b$ 6) $8x^2 - 19 = x$

7) $7x^2 - x = 4$ 8) $3v^2 = 4v + 24$

9) $5n^2 - 8n = 18$ 10) $n^2 = 1$

11) $7p^2 + 7 = 9p$ 12) $10x^2 - 23 = -x$

13) $9x^2 + 7x = 10$ 14) $4x^2 = 100$

15) $4x^2 - 49 = 0$ 16) $2r^2 = -9r + 18$

17) $4n^2 - 9 = -4n$ 18) $2n^2 + 10n = 6$

19) $3n^2 = 12$ 20) $6n^2 = 18$

21) $3x^2 = 48$ 22) $11r^2 - 13 = r$

Algebra 1   Name_____

Assignment   Date_____ Period_____

Solve each equation with the quadratic formula.

1) $n^2 + 16 = 11n$

{9.275, 1.725}

2) $3k^2 = 19$

{2.517, −2.517}

3) $n^2 − 5 = 0$

{2.236, −2.236}

4) $2x^2 = 7 − 5x$

{1, −3.5}

5) $11b^2 = 1 − 6b$

{0.134, −0.679}

6) $8x^2 − 19 = x$

{1.605, −1.48}

7) $7x^2 − x = 4$

{0.831, −0.688}

8) $3v^2 = 4v + 24$

{3.573, −2.239}

9) $5n^2 − 8n = 18$

{2.859, −1.259}

10) $n^2 = 1$

{1, −1}

11) $7p^2 + 7 = 9p$

No solution.

12) $10x^2 − 23 = −x$

{1.467, −1.567}

13) $9x^2 + 7x = 10$

{0.735, −1.512}

14) $4x^2 = 100$

{5, −5}

15) $4x^2 − 49 = 0$

{3.5, −3.5}

16) $2r^2 = −9r + 18$

{1.5, −6}

17) $4n^2 − 9 = −4n$

{1.081, −2.081}

18) $2n^2 + 10n = 6$

{0.541, −5.541}

19) $3n^2 = 12$

{2, −2}

20) $6n^2 = 18$

{1.732, −1.732}

21) $3x^2 = 48$

{4, −4}

22) $11r^2 − 13 = r$

{1.134, −1.043}