

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $7n^2 - 5 = 646$

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

3) $4v^2 - 7 = -9$

4) $-2 - 5a^2 = -362$

5) $7m^2 + 3 = 682$

6) $3m^2 - 6 = 6$

7) $-6 - 7v^2 = -692$

8) $9a^2 + 3 = 12$

9) $6x^2 + 4 = 28$

10) $3a^2 - 3 = 72$

11) $3x^2 - 2 = 298$

12) $3 - 2k^2 = -95$

13) $4n^2 + 6 = 226$

14) $5n^2 - 9 = 71$

15) $9k^2 + 2 = 578$

16) $4x^2 + 3 = 295$

17) $7k^2 - 6 = 680$

18) $7 - 2m^2 = -65$

19) $7r^2 + 9 = 51$

20) $6x^2 + 4 = -120$

21) $-8 - 7n^2 = -211$

22) $4x^2 + 3 = 52$

23) $81n^2 - 6 = 94$

24) $3r^2 - 7 = 215$

25) $9n^2 - 7 = -38$

26) $4x^2 - 8 = 256$

27) $5n^2 - 3 = 157$

28) $6k^2 + 2 = 386$

29) $3x^2 + 3 = 78$

30) $-2 - 2n^2 = -180$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $7n^2 - 5 = 646$

 $\{9.644, -9.644\}$

3) $4v^2 - 7 = -9$

No solution.

5) $7m^2 + 3 = 682$

 $\{9.849, -9.849\}$

7) $-6 - 7v^2 = -692$

 $\{9.899, -9.899\}$

9) $6x^2 + 4 = 28$

 $\{2, -2\}$

11) $3x^2 - 2 = 298$

 $\{10, -10\}$

13) $4n^2 + 6 = 226$

 $\{7.416, -7.416\}$

15) $9k^2 + 2 = 578$

 $\{8, -8\}$

17) $7k^2 - 6 = 680$

 $\{9.899, -9.899\}$

19) $7r^2 + 9 = 51$

 $\{2.449, -2.449\}$

21) $-8 - 7n^2 = -211$

 $\{5.385, -5.385\}$

23) $81n^2 - 6 = 94$

 $\{1.111, -1.111\}$

25) $9n^2 - 7 = -38$

No solution.

27) $5n^2 - 3 = 157$

 $\{5.657, -5.657\}$

29) $3x^2 + 3 = 78$

 $\{5, -5\}$

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

 $\{1, -1\}$

4) $-2 - 5a^2 = -362$

 $\{8.485, -8.485\}$

6) $3m^2 - 6 = 6$

 $\{2, -2\}$

8) $9a^2 + 3 = 12$

 $\{1, -1\}$

10) $3a^2 - 3 = 72$

 $\{5, -5\}$

12) $3 - 2k^2 = -95$

 $\{7, -7\}$

14) $5n^2 - 9 = 71$

 $\{4, -4\}$

16) $4x^2 + 3 = 295$

 $\{8.544, -8.544\}$

18) $7 - 2m^2 = -65$

 $\{6, -6\}$

20) $6x^2 + 4 = -120$

No solution.

22) $4x^2 + 3 = 52$

 $\{3.5, -3.5\}$

24) $3r^2 - 7 = 215$

 $\{8.602, -8.602\}$

26) $4x^2 - 8 = 256$

 $\{8.124, -8.124\}$

28) $6k^2 + 2 = 386$

 $\{8, -8\}$

30) $-2 - 2n^2 = -180$

 $\{9.434, -9.434\}$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $5p^2 + 5 = 275$

2) $6p^2 - 7 = 269$

3) $5m^2 - 7 = 63$

4) $8a^2 + 5 = 309$

5) $7n^2 - 6 = 176$

6) $4k^2 - 6 = 10$

7) $8n^2 + 8 = 808$

8) $7v^2 - 3 = 109$

9) $2r^2 - 7 = 43$

10) $5k^2 - 5 = 60$

11) $4r^2 - 4 = 0$

12) $49x^2 - 5 = -1$

13) $5x^2 - 10 = 175$

14) $5x^2 + 3 = 8$

15) $10 - 3x^2 = -31$

16) $-9 - 3x^2 = -102$

17) $6b^2 + 3 = 387$

18) $3n^2 - 2 = -9$

19) $36x^2 - 9 = 16$

20) $9a^2 - 3 = 33$

21) $3p^2 - 6 = 255$

22) $3n^2 - 7 = 20$

23) $5a^2 - 7 = 143$

24) $9a^2 + 4 = 760$

25) $49a^2 - 5 = 4$

26) $2r^2 + 10 = 42$

27) $5a^2 + 10 = 260$

28) $7x^2 + 4 = 256$

29) $2x^2 - 5 = 157$

30) $10n^2 - 9 = 941$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $5p^2 + 5 = 275$

 $\{7.348, -7.348\}$

2) $6p^2 - 7 = 269$

 $\{6.782, -6.782\}$

3) $5m^2 - 7 = 63$

 $\{3.742, -3.742\}$

4) $8a^2 + 5 = 309$

 $\{6.164, -6.164\}$

5) $7n^2 - 6 = 176$

 $\{5.099, -5.099\}$

6) $4k^2 - 6 = 10$

 $\{2, -2\}$

7) $8n^2 + 8 = 808$

 $\{10, -10\}$

8) $7v^2 - 3 = 109$

 $\{4, -4\}$

9) $2r^2 - 7 = 43$

 $\{5, -5\}$

10) $5k^2 - 5 = 60$

 $\{3.606, -3.606\}$

11) $4r^2 - 4 = 0$

 $\{1, -1\}$

12) $49x^2 - 5 = -1$

 $\{0.286, -0.286\}$

13) $5x^2 - 10 = 175$

 $\{6.083, -6.083\}$

14) $5x^2 + 3 = 8$

 $\{1, -1\}$

15) $10 - 3x^2 = -31$

 $\{3.697, -3.697\}$

16) $-9 - 3x^2 = -102$

 $\{5.568, -5.568\}$

17) $6b^2 + 3 = 387$

 $\{8, -8\}$

18) $3n^2 - 2 = -9$

No solution.

19) $36x^2 - 9 = 16$

 $\{0.833, -0.833\}$

20) $9a^2 - 3 = 33$

 $\{2, -2\}$

21) $3p^2 - 6 = 255$

 $\{9.327, -9.327\}$

22) $3n^2 - 7 = 20$

 $\{3, -3\}$

23) $5a^2 - 7 = 143$

 $\{5.477, -5.477\}$

24) $9a^2 + 4 = 760$

 $\{9.165, -9.165\}$

25) $49a^2 - 5 = 4$

 $\{0.429, -0.429\}$

26) $2r^2 + 10 = 42$

 $\{4, -4\}$

27) $5a^2 + 10 = 260$

 $\{7.071, -7.071\}$

28) $7x^2 + 4 = 256$

 $\{6, -6\}$

29) $2x^2 - 5 = 157$

 $\{9, -9\}$

30) $10n^2 - 9 = 941$

 $\{9.747, -9.747\}$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $8x^2 + 1 = 201$

2) $4b^2 + 8 = 408$

3) $4a^2 + 5 = 105$

4) $10v^2 - 6 = 154$

5) $6 - 7x^2 = -652$

6) $9x^2 + 5 = 21$

7) $5p^2 - 9 = -26$

8) $3n^2 - 10 = 224$

9) $10r^2 + 5 = 395$

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

11) $2m^2 + 7 = 79$

12) $4x^2 - 5 = 135$

13) $81r^2 + 2 = 11$

14) $7 - 2n^2 = -49$

15) $9v^2 - 9 = 720$

16) $5n^2 + 2 = 322$

17) $7v^2 - 6 = 211$

18) $5a^2 - 7 = 68$

19) $-10 - 2x^2 = -30$

20) $81a^2 + 3 = 12$

21) $2n^2 - 7 = 1$

22) $10m^2 - 7 = -117$

23) $9 - 9p^2 = -819$

24) $7r^2 + 8 = 512$

25) $2n^2 - 7 = 71$

26) $3x^2 + 1 = 97$

27) $4m^2 - 7 = -3$

28) $7v^2 + 6 = 321$

29) $-8 - 8n^2 = -656$

30) $8m^2 + 7 = 15$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $8x^2 + 1 = 201$

 $\{5, -5\}$

3) $4a^2 + 5 = 105$

 $\{5, -5\}$

5) $6 - 7x^2 = -652$

 $\{9.695, -9.695\}$

7) $5p^2 - 9 = -26$

No solution.

9) $10r^2 + 5 = 395$

 $\{6.245, -6.245\}$

11) $2m^2 + 7 = 79$

 $\{6, -6\}$

13) $81r^2 + 2 = 11$

 $\{0.333, -0.333\}$

15) $9v^2 - 9 = 720$

 $\{9, -9\}$

17) $7v^2 - 6 = 211$

 $\{5.568, -5.568\}$

19) $-10 - 2x^2 = -30$

 $\{3.162, -3.162\}$

21) $2n^2 - 7 = 1$

 $\{2, -2\}$

23) $9 - 9p^2 = -819$

 $\{9.592, -9.592\}$

25) $2n^2 - 7 = 71$

 $\{6.245, -6.245\}$

27) $4m^2 - 7 = -3$

 $\{1, -1\}$

29) $-8 - 8n^2 = -656$

 $\{9, -9\}$

2) $4b^2 + 8 = 408$

 $\{10, -10\}$

4) $10v^2 - 6 = 154$

 $\{4, -4\}$

6) $9x^2 + 5 = 21$

 $\{1.333, -1.333\}$

8) $3n^2 - 10 = 224$

 $\{8.832, -8.832\}$

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

No solution.

12) $4x^2 - 5 = 135$

 $\{5.916, -5.916\}$

14) $7 - 2n^2 = -49$

 $\{5.292, -5.292\}$

16) $5n^2 + 2 = 322$

 $\{8, -8\}$

18) $5a^2 - 7 = 68$

 $\{3.873, -3.873\}$

20) $81a^2 + 3 = 12$

 $\{0.333, -0.333\}$

22) $10m^2 - 7 = -117$

No solution.

24) $7r^2 + 8 = 512$

 $\{8.485, -8.485\}$

26) $3x^2 + 1 = 97$

 $\{5.657, -5.657\}$

28) $7v^2 + 6 = 321$

 $\{6.708, -6.708\}$

30) $8m^2 + 7 = 15$

 $\{1, -1\}$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $2x^2 - 10 = 62$

2) $9k^2 - 5 = 139$

3) $3n^2 + 8 = 236$

4) $3n^2 - 5 = 76$

5) $6 + 36a^2 = 87$

6) $7m^2 - 3 = -53$

7) $10n^2 - 10 = -124$

8) $2p^2 + 5 = 23$

9) $9p^2 + 10 = 793$

10) $6 - 5m^2 = -89$

11) $5v^2 - 2 = 78$

12) $2r^2 + 1 = 181$

13) $3m^2 + 10 = 307$

14) $4 - 8p^2 = -660$

15) $9 - 10b^2 = -991$

16) $5 + 64b^2 = 9$

17) $3x^2 + 5 = 77$

18) $-6 - 3n^2 = -141$

19) $49k^2 - 4 = 96$

20) $2b^2 + 10 = 112$

21) $2n^2 - 1 = 199$

22) $6x^2 - 4 = 86$

23) $3 - 9m^2 = -276$

24) $3 - 2v^2 = -119$

25) $7 + 100b^2 = 16$

26) $-4 - 3x^2 = -259$

27) $9n^2 + 3 = 12$

28) $7r^2 - 7 = -47$

29) $6n^2 + 9 = 189$

30) $2b^2 - 5 = 3$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $2x^2 - 10 = 62$

 $\{6, -6\}$

3) $3n^2 + 8 = 236$

 $\{8.718, -8.718\}$

5) $6 + 36a^2 = 87$

 $\{1.5, -1.5\}$

7) $10n^2 - 10 = -124$

No solution.

9) $9p^2 + 10 = 793$

 $\{9.327, -9.327\}$

11) $5v^2 - 2 = 78$

 $\{4, -4\}$

13) $3m^2 + 10 = 307$

 $\{9.95, -9.95\}$

15) $9 - 10b^2 = -991$

 $\{10, -10\}$

17) $3x^2 + 5 = 77$

 $\{4.899, -4.899\}$

19) $49k^2 - 4 = 96$

 $\{1.429, -1.429\}$

21) $2n^2 - 1 = 199$

 $\{10, -10\}$

23) $3 - 9m^2 = -276$

 $\{5.568, -5.568\}$

25) $7 + 100b^2 = 16$

 $\{0.3, -0.3\}$

27) $9n^2 + 3 = 12$

 $\{1, -1\}$

29) $6n^2 + 9 = 189$

 $\{5.477, -5.477\}$

2) $9k^2 - 5 = 139$

 $\{4, -4\}$

4) $3n^2 - 5 = 76$

 $\{5.196, -5.196\}$

6) $7m^2 - 3 = -53$

No solution.

8) $2p^2 + 5 = 23$

 $\{3, -3\}$

10) $6 - 5m^2 = -89$

 $\{4.359, -4.359\}$

12) $2r^2 + 1 = 181$

 $\{9.487, -9.487\}$

14) $4 - 8p^2 = -660$

 $\{9.11, -9.11\}$

16) $5 + 64b^2 = 9$

 $\{0.25, -0.25\}$

18) $-6 - 3n^2 = -141$

 $\{6.708, -6.708\}$

20) $2b^2 + 10 = 112$

 $\{7.141, -7.141\}$

22) $6x^2 - 4 = 86$

 $\{3.873, -3.873\}$

24) $3 - 2v^2 = -119$

 $\{7.81, -7.81\}$

26) $-4 - 3x^2 = -259$

 $\{9.22, -9.22\}$

28) $7r^2 - 7 = -47$

No solution.

30) $2b^2 - 5 = 3$

 $\{2, -2\}$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $10a^2 - 1 = -163$

2) $4p^2 - 8 = 324$

3) $9n^2 - 10 = 764$

4) $2n^2 - 8 = 64$

5) $8p^2 + 5 = 309$

6) $4a^2 - 6 = 190$

7) $2x^2 + 2 = 90$

8) $6n^2 + 1 = 97$

9) $6x^2 + 8 = 182$

10) $2v^2 + 8 = 116$

11) $3p^2 - 4 = 23$

12) $10b^2 - 5 = 485$

13) $10x^2 + 6 = -173$

14) $6b^2 - 9 = 15$

15) $3p^2 - 2 = 94$

16) $2x^2 - 4 = 164$

17) $7 - 2k^2 = -21$

18) $10x^2 - 9 = 781$

19) $2n^2 - 10 = 78$

20) $4b^2 + 3 = 79$

21) $6r^2 - 5 = 109$

22) $4x^2 + 4 = 348$

23) $49m^2 + 9 = 73$

24) $6x^2 + 5 = 347$

25) $3p^2 + 7 = 49$

26) $2p^2 + 3 = 35$

27) $9x^2 - 2 = 79$

28) $2x^2 - 4 = 94$

29) $8m^2 - 3 = 101$

30) $2n^2 + 10 = 76$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $10a^2 - 1 = -163$

No solution.

2) $4p^2 - 8 = 324$

 $\{9.11, -9.11\}$

3) $9n^2 - 10 = 764$

 $\{9.274, -9.274\}$

4) $2n^2 - 8 = 64$

 $\{6, -6\}$

5) $8p^2 + 5 = 309$

 $\{6.164, -6.164\}$

6) $4a^2 - 6 = 190$

 $\{7, -7\}$

7) $2x^2 + 2 = 90$

 $\{6.633, -6.633\}$

8) $6n^2 + 1 = 97$

 $\{4, -4\}$

9) $6x^2 + 8 = 182$

 $\{5.385, -5.385\}$

10) $2v^2 + 8 = 116$

 $\{7.348, -7.348\}$

11) $3p^2 - 4 = 23$

 $\{3, -3\}$

12) $10b^2 - 5 = 485$

 $\{7, -7\}$

13) $10x^2 + 6 = -173$

No solution.

14) $6b^2 - 9 = 15$

 $\{2, -2\}$

15) $3p^2 - 2 = 94$

 $\{5.657, -5.657\}$

16) $2x^2 - 4 = 164$

 $\{9.165, -9.165\}$

17) $7 - 2k^2 = -21$

 $\{3.742, -3.742\}$

18) $10x^2 - 9 = 781$

 $\{8.888, -8.888\}$

19) $2n^2 - 10 = 78$

 $\{6.633, -6.633\}$

20) $4b^2 + 3 = 79$

 $\{4.359, -4.359\}$

21) $6r^2 - 5 = 109$

 $\{4.359, -4.359\}$

22) $4x^2 + 4 = 348$

 $\{9.274, -9.274\}$

23) $49m^2 + 9 = 73$

 $\{1.143, -1.143\}$

24) $6x^2 + 5 = 347$

 $\{7.55, -7.55\}$

25) $3p^2 + 7 = 49$

 $\{3.742, -3.742\}$

26) $2p^2 + 3 = 35$

 $\{4, -4\}$

27) $9x^2 - 2 = 79$

 $\{3, -3\}$

28) $2x^2 - 4 = 94$

 $\{7, -7\}$

29) $8m^2 - 3 = 101$

 $\{3.606, -3.606\}$

30) $2n^2 + 10 = 76$

 $\{5.745, -5.745\}$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $7m^2 - 1 = 517$

2) $4 - 4x^2 = -340$

3) $9k^2 + 6 = 834$

4) $-4 - 10x^2 = -644$

5) $7n^2 + 7 = 350$

6) $5n^2 + 2 = 47$

7) $5v^2 - 6 = 174$

8) $8x^2 + 9 = 97$

9) $5v^2 - 5 = 110$

10) $2x^2 + 3 = 131$

11) $7n^2 + 6 = 559$

12) $8n^2 + 1 = 553$

13) $4m^2 - 1 = 319$

14) $49n^2 + 4 = 5$

15) $6r^2 - 6 = 210$

16) $10m^2 - 3 = 607$

17) $6x^2 - 5 = 199$

18) $9r^2 + 5 = 275$

19) $4r^2 - 2 = 382$

20) $9x^2 + 1 = 712$

21) $2b^2 - 1 = 131$

22) $8a^2 - 9 = 655$

23) $5x^2 - 2 = 413$

24) $3x^2 - 9 = 99$

25) $8k^2 + 9 = 137$

26) $-5 - 7x^2 = -117$

27) $3b^2 + 1 = 190$

28) $5v^2 + 1 = 131$

29) $5v^2 - 1 = 449$

30) $10m^2 - 10 = -76$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $7m^2 - 1 = 517$

 $\{8.602, -8.602\}$

3) $9k^2 + 6 = 834$

 $\{9.592, -9.592\}$

5) $7n^2 + 7 = 350$

 $\{7, -7\}$

7) $5v^2 - 6 = 174$

 $\{6, -6\}$

9) $5v^2 - 5 = 110$

 $\{4.796, -4.796\}$

11) $7n^2 + 6 = 559$

 $\{8.888, -8.888\}$

13) $4m^2 - 1 = 319$

 $\{8.944, -8.944\}$

15) $6r^2 - 6 = 210$

 $\{6, -6\}$

17) $6x^2 - 5 = 199$

 $\{5.831, -5.831\}$

19) $4r^2 - 2 = 382$

 $\{9.798, -9.798\}$

21) $2b^2 - 1 = 131$

 $\{8.124, -8.124\}$

23) $5x^2 - 2 = 413$

 $\{9.11, -9.11\}$

25) $8k^2 + 9 = 137$

 $\{4, -4\}$

27) $3b^2 + 1 = 190$

 $\{7.937, -7.937\}$

29) $5v^2 - 1 = 449$

 $\{9.487, -9.487\}$

2) $4 - 4x^2 = -340$

 $\{9.274, -9.274\}$

4) $-4 - 10x^2 = -644$

 $\{8, -8\}$

6) $5n^2 + 2 = 47$

 $\{3, -3\}$

8) $8x^2 + 9 = 97$

 $\{3.317, -3.317\}$

10) $2x^2 + 3 = 131$

 $\{8, -8\}$

12) $8n^2 + 1 = 553$

 $\{8.307, -8.307\}$

14) $49n^2 + 4 = 5$

 $\{0.143, -0.143\}$

16) $10m^2 - 3 = 607$

 $\{7.81, -7.81\}$

18) $9r^2 + 5 = 275$

 $\{5.477, -5.477\}$

20) $9x^2 + 1 = 712$

 $\{8.888, -8.888\}$

22) $8a^2 - 9 = 655$

 $\{9.11, -9.11\}$

24) $3x^2 - 9 = 99$

 $\{6, -6\}$

26) $-5 - 7x^2 = -117$

 $\{4, -4\}$

28) $5v^2 + 1 = 131$

 $\{5.099, -5.099\}$

30) $10m^2 - 10 = -76$

No solution.

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $5b^2 + 8 = -60$

2) $6x^2 - 7 = 377$

3) $5v^2 + 8 = 213$

4) $3a^2 - 9 = 243$

5) $9x^2 + 1 = 802$

6) $4p^2 + 2 = 114$

7) $1 - 9r^2 = -305$

8) $5a^2 - 5 = 175$

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

10) $3k^2 - 3 = 45$

11) $3x^2 + 10 = 286$

12) $2r^2 + 5 = 93$

13) $100x^2 - 1 = 3$

14) $7r^2 + 10 = -133$

15) $5n^2 - 8 = 347$

16) $8r^2 + 7 = 719$

17) $8n^2 - 2 = 30$

18) $9k^2 - 5 = 652$

19) $3v^2 - 7 = 77$

20) $8x^2 + 10 = 562$

21) $4n^2 - 6 = 30$

22) $7n^2 - 8 = 475$

23) $5 - 9x^2 = -535$

24) $4p^2 + 1 = 37$

25) $-4 + 16n^2 = -3$

26) $9n^2 + 10 = 46$

27) $7p^2 + 1 = 281$

28) $-4 + 36n^2 = 21$

29) $9r^2 + 7 = -71$

30) $4a^2 + 6 = 42$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $5b^2 + 8 = -60$

No solution.

2) $6x^2 - 7 = 377$

 $\{8, -8\}$

3) $5v^2 + 8 = 213$

 $\{6.403, -6.403\}$

4) $3a^2 - 9 = 243$

 $\{9.165, -9.165\}$

5) $9x^2 + 1 = 802$

 $\{9.434, -9.434\}$

6) $4p^2 + 2 = 114$

 $\{5.292, -5.292\}$

7) $1 - 9r^2 = -305$

 $\{5.831, -5.831\}$

8) $5a^2 - 5 = 175$

 $\{6, -6\}$

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

 $\{3, -3\}$

10) $3k^2 - 3 = 45$

 $\{4, -4\}$

11) $3x^2 + 10 = 286$

 $\{9.592, -9.592\}$

12) $2r^2 + 5 = 93$

 $\{6.633, -6.633\}$

13) $100x^2 - 1 = 3$

 $\{0.2, -0.2\}$

14) $7r^2 + 10 = -133$

No solution.

15) $5n^2 - 8 = 347$

 $\{8.426, -8.426\}$

16) $8r^2 + 7 = 719$

 $\{9.434, -9.434\}$

17) $8n^2 - 2 = 30$

 $\{2, -2\}$

18) $9k^2 - 5 = 652$

 $\{8.544, -8.544\}$

19) $3v^2 - 7 = 77$

 $\{5.292, -5.292\}$

20) $8x^2 + 10 = 562$

 $\{8.307, -8.307\}$

21) $4n^2 - 6 = 30$

 $\{3, -3\}$

22) $7n^2 - 8 = 475$

 $\{8.307, -8.307\}$

23) $5 - 9x^2 = -535$

 $\{7.746, -7.746\}$

24) $4p^2 + 1 = 37$

 $\{3, -3\}$

25) $-4 + 16n^2 = -3$

 $\{0.25, -0.25\}$

26) $9n^2 + 10 = 46$

 $\{2, -2\}$

27) $7p^2 + 1 = 281$

 $\{6.325, -6.325\}$

28) $-4 + 36n^2 = 21$

 $\{0.833, -0.833\}$

29) $9r^2 + 7 = -71$

No solution.

30) $4a^2 + 6 = 42$

 $\{3, -3\}$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $7n^2 - 5 = 443$

2) $5 - 4a^2 = -187$

3) $5p^2 - 6 = 159$

4) $10v^2 + 8 = 648$

5) $7 - 2r^2 = -35$

6) $6n^2 + 8 = 338$

7) $-10 - 10n^2 = -50$

8) $2k^2 - 7 = 91$

9) $7b^2 - 3 = 109$

10) $2p^2 - 3 = 95$

11) $10k^2 - 6 = 34$

12) $8n^2 + 1 = 129$

13) $9n^2 + 9 = 198$

14) $-6 - 3x^2 = -306$

15) $5x^2 - 4 = 316$

16) $5k^2 - 8 = 397$

17) $-5 - 4n^2 = -333$

18) $5n^2 + 6 = 96$

19) $4 - 9v^2 = -41$

20) $9p^2 + 1 = 676$

21) $4r^2 - 2 = 398$

22) $4n^2 - 10 = 246$

23) $10x^2 + 7 = 497$

24) $4k^2 - 6 = 94$

25) $10 - 7n^2 = -242$

26) $81v^2 + 8 = 17$

27) $3 - 7m^2 = -249$

28) $9 - 6n^2 = -213$

29) $4k^2 - 7 = 57$

30) $2x^2 + 7 = 9$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $7n^2 - 5 = 443$

 $\{8, -8\}$

3) $5p^2 - 6 = 159$

 $\{5.745, -5.745\}$

5) $7 - 2r^2 = -35$

 $\{4.583, -4.583\}$

7) $-10 - 10n^2 = -50$

 $\{2, -2\}$

9) $7b^2 - 3 = 109$

 $\{4, -4\}$

11) $10k^2 - 6 = 34$

 $\{2, -2\}$

13) $9n^2 + 9 = 198$

 $\{4.583, -4.583\}$

15) $5x^2 - 4 = 316$

 $\{8, -8\}$

17) $-5 - 4n^2 = -333$

 $\{9.055, -9.055\}$

19) $4 - 9v^2 = -41$

 $\{2.236, -2.236\}$

21) $4r^2 - 2 = 398$

 $\{10, -10\}$

23) $10x^2 + 7 = 497$

 $\{7, -7\}$

25) $10 - 7n^2 = -242$

 $\{6, -6\}$

27) $3 - 7m^2 = -249$

 $\{6, -6\}$

29) $4k^2 - 7 = 57$

 $\{4, -4\}$

2) $5 - 4a^2 = -187$

 $\{6.928, -6.928\}$

4) $10v^2 + 8 = 648$

 $\{8, -8\}$

6) $6n^2 + 8 = 338$

 $\{7.416, -7.416\}$

8) $2k^2 - 7 = 91$

 $\{7, -7\}$

10) $2p^2 - 3 = 95$

 $\{7, -7\}$

12) $8n^2 + 1 = 129$

 $\{4, -4\}$

14) $-6 - 3x^2 = -306$

 $\{10, -10\}$

16) $5k^2 - 8 = 397$

 $\{9, -9\}$

18) $5n^2 + 6 = 96$

 $\{4.243, -4.243\}$

20) $9p^2 + 1 = 676$

 $\{8.66, -8.66\}$

22) $4n^2 - 10 = 246$

 $\{8, -8\}$

24) $4k^2 - 6 = 94$

 $\{5, -5\}$

26) $81v^2 + 8 = 17$

 $\{0.333, -0.333\}$

28) $9 - 6n^2 = -213$

 $\{6.083, -6.083\}$

30) $2x^2 + 7 = 9$

 $\{1, -1\}$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $4p^2 - 9 = 363$

2) $4p^2 - 4 = 60$

3) $4n^2 + 9 = 13$

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

5) $3k^2 + 10 = -21$

6) $4x^2 + 3 = 259$

7) $5k^2 + 2 = 152$

8) $4v^2 + 1 = 50$

9) $10n^2 - 3 = 407$

10) $2n^2 + 5 = 139$

11) $2n^2 + 8 = 80$

12) $4m^2 - 8 = 264$

13) $3n^2 - 1 = 191$

14) $-2 + 4n^2 = 34$

15) $2n^2 + 6 = 140$

16) $6x^2 + 9 = 159$

17) $9n^2 + 2 = -155$

18) $10x^2 + 9 = 1009$

19) $9m^2 + 7 = 736$

20) $5x^2 + 5 = 390$

21) $4n^2 - 4 = 220$

22) $6v^2 + 9 = 447$

23) $-7 - 5x^2 = -87$

24) $8n^2 - 5 = -136$

25) $3p^2 - 10 = 233$

26) $2p^2 - 6 = 10$

27) $2n^2 + 2 = 46$

28) $-10 - 5n^2 = -310$

29) $3x^2 - 4 = 158$

30) $7x^2 - 10 = 242$

Assignment

Date _____ Period _____

Solve each equation by taking square roots.

1) $4p^2 - 9 = 363$

 $\{9.644, -9.644\}$

3) $4n^2 + 9 = 13$

 $\{1, -1\}$

5) $3k^2 + 10 = -21$

No solution.

7) $5k^2 + 2 = 152$

 $\{5.477, -5.477\}$

9) $10n^2 - 3 = 407$

 $\{6.403, -6.403\}$

11) $2n^2 + 8 = 80$

 $\{6, -6\}$

13) $3n^2 - 1 = 191$

 $\{8, -8\}$

15) $2n^2 + 6 = 140$

 $\{8.185, -8.185\}$

17) $9n^2 + 2 = -155$

No solution.

19) $9m^2 + 7 = 736$

 $\{9, -9\}$

21) $4n^2 - 4 = 220$

 $\{7.483, -7.483\}$

23) $-7 - 5x^2 = -87$

 $\{4, -4\}$

25) $3p^2 - 10 = 233$

 $\{9, -9\}$

27) $2n^2 + 2 = 46$

 $\{4.69, -4.69\}$

29) $3x^2 - 4 = 158$

 $\{7.348, -7.348\}$

2) $4p^2 - 4 = 60$

 $\{4, -4\}$

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

 $\{1, -1\}$

6) $4x^2 + 3 = 259$

 $\{8, -8\}$

8) $4v^2 + 1 = 50$

 $\{3.5, -3.5\}$

10) $2n^2 + 5 = 139$

 $\{8.185, -8.185\}$

12) $4m^2 - 8 = 264$

 $\{8.246, -8.246\}$

14) $-2 + 4n^2 = 34$

 $\{3, -3\}$

16) $6x^2 + 9 = 159$

 $\{5, -5\}$

18) $10x^2 + 9 = 1009$

 $\{10, -10\}$

20) $5x^2 + 5 = 390$

 $\{8.775, -8.775\}$

22) $6v^2 + 9 = 447$

 $\{8.544, -8.544\}$

24) $8n^2 - 5 = -136$

No solution.

26) $2p^2 - 6 = 10$

 $\{2.828, -2.828\}$

28) $-10 - 5n^2 = -310$

 $\{7.746, -7.746\}$

30) $7x^2 - 10 = 242$

 $\{6, -6\}$

Assignment

Solve each equation by taking square roots.

1) $8k^2 + 8 = 520$

2) $6n^2 + 3 = 387$

3) $5x^2 + 7 = 447$

4) $8m^2 + 5 = 517$

5) $4x^2 + 8 = 76$

6) $6x^2 + 3 = 603$

7) $3n^2 - 10 = 215$

8) $-8 - 10m^2 = -648$

9) $8n^2 - 8 = -157$

10) $6n^2 - 6 = 558$

11) $16k^2 - 7 = -6$

12) $-10 - 10n^2 = -20$

13) $8x^2 + 8 = 208$

14) $-7 - 9r^2 = -610$

15) $16p^2 + 3 = 67$

16) $49x^2 + 8 = 44$

17) $-8 + 9x^2 = 17$

18) $2n^2 - 2 = -23$

19) $9b^2 + 3 = -87$

20) $7b^2 - 3 = 445$

21) $8b^2 + 8 = 736$

22) $3n^2 + 9 = 162$

23) $7r^2 - 8 = 258$

24) $4 - 7a^2 = -45$

25) $5 - 3n^2 = -175$

26) $7x^2 + 5 = 453$

27) $2r^2 + 6 = 24$

28) $3r^2 + 6 = 18$

29) $10n^2 + 3 = 73$

30) $-10 - 2n^2 = -39$

Assignment

Solve each equation by taking square roots.

1) $8k^2 + 8 = 520$

 $\{8, -8\}$

3) $5x^2 + 7 = 447$

 $\{9.381, -9.381\}$

5) $4x^2 + 8 = 76$

 $\{4.123, -4.123\}$

7) $3n^2 - 10 = 215$

 $\{8.66, -8.66\}$

9) $8n^2 - 8 = -157$

No solution.

11) $16k^2 - 7 = -6$

 $\{0.25, -0.25\}$

13) $8x^2 + 8 = 208$

 $\{5, -5\}$

15) $16p^2 + 3 = 67$

 $\{2, -2\}$

17) $-8 + 9x^2 = 17$

 $\{1.667, -1.667\}$

19) $9b^2 + 3 = -87$

No solution.

21) $8b^2 + 8 = 736$

 $\{9.539, -9.539\}$

23) $7r^2 - 8 = 258$

 $\{6.164, -6.164\}$

25) $5 - 3n^2 = -175$

 $\{7.746, -7.746\}$

27) $2r^2 + 6 = 24$

 $\{3, -3\}$

29) $10n^2 + 3 = 73$

 $\{2.646, -2.646\}$

2) $6n^2 + 3 = 387$

 $\{8, -8\}$

4) $8m^2 + 5 = 517$

 $\{8, -8\}$

6) $6x^2 + 3 = 603$

 $\{10, -10\}$

8) $-8 - 10m^2 = -648$

 $\{8, -8\}$

10) $6n^2 - 6 = 558$

 $\{9.695, -9.695\}$

12) $-10 - 10n^2 = -20$

 $\{1, -1\}$

14) $-7 - 9r^2 = -610$

 $\{8.185, -8.185\}$

16) $49x^2 + 8 = 44$

 $\{0.857, -0.857\}$

18) $2n^2 - 2 = -23$

No solution.

20) $7b^2 - 3 = 445$

 $\{8, -8\}$

22) $3n^2 + 9 = 162$

 $\{7.141, -7.141\}$

24) $4 - 7a^2 = -45$

 $\{2.646, -2.646\}$

26) $7x^2 + 5 = 453$

 $\{8, -8\}$

28) $3r^2 + 6 = 18$

 $\{2, -2\}$

30) $-10 - 2n^2 = -39$

 $\{3.808, -3.808\}$