

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $10x^2 + 6 = 516$

2)  $8n^2 + 4 = 252$

3)  $6m^2 - 1 = 575$

4)  $3x^2 - 7 = 128$

5)  $2v^2 + 3 = 81$

6)  $-1 - 3x^2 = -49$

7)  $8 - 7v^2 = 0$

8)  $10 - 4m^2 = -102$

9)  $8a^2 + 2 = 730$

10)  $5x^2 + 5 = 455$

11)  $8n^2 - 5 = 571$

12)  $6n^2 + 4 = 16$

13)  $81n^2 + 5 = 69$

14)  $2 + 25x^2 = 102$

15)  $49n^2 + 1 = 26$

16)  $7x^2 - 8 = 27$

17)  $3x^2 + 9 = 252$

18)  $-10 - 2n^2 = -24$

19)  $2n^2 + 8 = 20$

20)  $3v^2 - 8 = -22$

21)  $10n^2 - 5 = 155$

22)  $3n^2 - 5 = 115$

23)  $5x^2 + 5 = 155$

24)  $5n^2 - 1 = 249$

25)  $4m^2 + 1 = 361$

26)  $3x^2 - 6 = 228$

27)  $7r^2 + 1 = 183$

28)  $5 - 9x^2 = -445$

29)  $9x^2 + 6 = 42$

30)  $6v^2 + 6 = 462$

31)  $8a^2 + 3 = 619$

32)  $8r^2 + 1 = -111$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $10x^2 + 6 = 516$

$\{7.141, -7.141\}$

3)  $6m^2 - 1 = 575$

$\{9.798, -9.798\}$

5)  $2v^2 + 3 = 81$

$\{6.245, -6.245\}$

7)  $8 - 7v^2 = 0$

$\{1.069, -1.069\}$

9)  $8a^2 + 2 = 730$

$\{9.539, -9.539\}$

11)  $8n^2 - 5 = 571$

$\{8.485, -8.485\}$

13)  $81n^2 + 5 = 69$

$\{0.889, -0.889\}$

15)  $49n^2 + 1 = 26$

$\{0.714, -0.714\}$

17)  $3x^2 + 9 = 252$

$\{9, -9\}$

19)  $2n^2 + 8 = 20$

$\{2.449, -2.449\}$

21)  $10n^2 - 5 = 155$

$\{4, -4\}$

23)  $5x^2 + 5 = 155$

$\{5.477, -5.477\}$

25)  $4m^2 + 1 = 361$

$\{9.487, -9.487\}$

27)  $7r^2 + 1 = 183$

$\{5.099, -5.099\}$

29)  $9x^2 + 6 = 42$

$\{2, -2\}$

31)  $8a^2 + 3 = 619$

$\{8.775, -8.775\}$

2)  $8n^2 + 4 = 252$

$\{5.568, -5.568\}$

4)  $3x^2 - 7 = 128$

$\{6.708, -6.708\}$

6)  $-1 - 3x^2 = -49$

$\{4, -4\}$

8)  $10 - 4m^2 = -102$

$\{5.292, -5.292\}$

10)  $5x^2 + 5 = 455$

$\{9.487, -9.487\}$

12)  $6n^2 + 4 = 16$

$\{1.414, -1.414\}$

14)  $2 + 25x^2 = 102$

$\{2, -2\}$

16)  $7x^2 - 8 = 27$

$\{2.236, -2.236\}$

18)  $-10 - 2n^2 = -24$

$\{2.646, -2.646\}$

20)  $3v^2 - 8 = -22$

No solution.

22)  $3n^2 - 5 = 115$

$\{6.325, -6.325\}$

24)  $5n^2 - 1 = 249$

$\{7.071, -7.071\}$

26)  $3x^2 - 6 = 228$

$\{8.832, -8.832\}$

28)  $5 - 9x^2 = -445$

$\{7.071, -7.071\}$

30)  $6v^2 + 6 = 462$

$\{8.718, -8.718\}$

32)  $8r^2 + 1 = -111$

No solution.

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $6x^2 + 3 = -103$

2)  $3r^2 - 2 = 79$

3)  $5r^2 - 7 = 123$

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

5)  $9 - 6x^2 = -279$

6)  $4r^2 + 7 = 299$

7)  $4x^2 + 2 = 6$

8)  $9r^2 + 4 = 634$

9)  $64b^2 + 9 = 10$

10)  $2x^2 + 9 = 171$

11)  $10x^2 + 3 = 53$

12)  $6x^2 - 6 = -34$

13)  $9 - 3x^2 = -18$

14)  $5x^2 + 2 = 197$

15)  $9x^2 - 7 = 42$

16)  $3r^2 + 6 = 54$

17)  $8n^2 + 4 = 364$

18)  $3 - 7x^2 = -571$

19)  $6n^2 + 7 = 421$

20)  $4r^2 + 6 = 74$

21)  $5x^2 - 3 = 77$

22)  $5x^2 + 3 = 373$

23)  $2a^2 - 10 = 128$

24)  $5p^2 - 4 = 411$

25)  $7x^2 + 2 = 450$

26)  $3 - 2p^2 = -29$

27)  $-2 - 8x^2 = -642$

28)  $8x^2 + 1 = 545$

29)  $10k^2 - 6 = 454$

30)  $7x^2 - 5 = 695$

31)  $25x^2 + 9 = 25$

32)  $16n^2 + 2 = 51$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $6x^2 + 3 = -103$

**No solution.**

3)  $5r^2 - 7 = 123$

**{5.099, -5.099}**

5)  $9 - 6x^2 = -279$

**{6.928, -6.928}**

7)  $4x^2 + 2 = 6$

**{1, -1}**

9)  $64b^2 + 9 = 10$

**{0.125, -0.125}**

11)  $10x^2 + 3 = 53$

**{2.236, -2.236}**

13)  $9 - 3x^2 = -18$

**{3, -3}**

15)  $9x^2 - 7 = 42$

**{2.333, -2.333}**

17)  $8n^2 + 4 = 364$

**{6.708, -6.708}**

19)  $6n^2 + 7 = 421$

**{8.307, -8.307}**

21)  $5x^2 - 3 = 77$

**{4, -4}**

23)  $2a^2 - 10 = 128$

**{8.307, -8.307}**

25)  $7x^2 + 2 = 450$

**{8, -8}**

27)  $-2 - 8x^2 = -642$

**{8.944, -8.944}**

29)  $10k^2 - 6 = 454$

**{6.782, -6.782}**

31)  $25x^2 + 9 = 25$

**{0.8, -0.8}**

2)  $3r^2 - 2 = 79$

**{5.196, -5.196}**

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

**{2, -2}**

6)  $4r^2 + 7 = 299$

**{8.544, -8.544}**

8)  $9r^2 + 4 = 634$

**{8.367, -8.367}**

10)  $2x^2 + 9 = 171$

**{9, -9}**

12)  $6x^2 - 6 = -34$

**No solution.**

14)  $5x^2 + 2 = 197$

**{6.245, -6.245}**

16)  $3r^2 + 6 = 54$

**{4, -4}**

18)  $3 - 7x^2 = -571$

**{9.055, -9.055}**

20)  $4r^2 + 6 = 74$

**{4.123, -4.123}**

22)  $5x^2 + 3 = 373$

**{8.602, -8.602}**

24)  $5p^2 - 4 = 411$

**{9.11, -9.11}**

26)  $3 - 2p^2 = -29$

**{4, -4}**

28)  $8x^2 + 1 = 545$

**{8.246, -8.246}**

30)  $7x^2 - 5 = 695$

**{10, -10}**

32)  $16n^2 + 2 = 51$

**{1.75, -1.75}**

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $64b^2 - 6 = -2$

2)  $5m^2 - 1 = 324$

3)  $5n^2 + 8 = 433$

4)  $8n^2 - 2 = 502$

5)  $2m^2 - 8 = 20$

6)  $10v^2 + 2 = -75$

7)  $4k^2 - 8 = 92$

8)  $4p^2 + 9 = -47$

9)  $3x^2 - 4 = 185$

10)  $3a^2 + 4 = 31$

11)  $8x^2 - 2 = 782$

12)  $3n^2 + 9 = 171$

13)  $49x^2 + 8 = 33$

14)  $4x^2 - 10 = 118$

15)  $-3 + 16x^2 = -2$

16)  $6x^2 + 10 = 124$

17)  $6m^2 - 5 = 133$

18)  $-10 + 49r^2 = 54$

19)  $-7 - 10x^2 = -137$

20)  $4n^2 + 2 = 102$

21)  $8r^2 + 8 = 168$

22)  $3n^2 + 1 = -52$

23)  $7x^2 + 2 = 450$

24)  $4m^2 + 9 = -48$

25)  $5a^2 - 4 = 1$

26)  $10n^2 + 10 = 820$

27)  $5b^2 - 1 = 494$

28)  $-4 + 64x^2 = 45$

29)  $9x^2 + 4 = 40$

30)  $2x^2 - 2 = 66$

31)  $5x^2 + 8 = 118$

32)  $9r^2 - 10 = 395$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $64b^2 - 6 = -2$

 $\{0.25, -0.25\}$ 

3)  $5n^2 + 8 = 433$

 $\{9.22, -9.22\}$ 

5)  $2m^2 - 8 = 20$

 $\{3.742, -3.742\}$ 

7)  $4k^2 - 8 = 92$

 $\{5, -5\}$ 

9)  $3x^2 - 4 = 185$

 $\{7.937, -7.937\}$ 

11)  $8x^2 - 2 = 782$

 $\{9.899, -9.899\}$ 

13)  $49x^2 + 8 = 33$

 $\{0.714, -0.714\}$ 

15)  $-3 + 16x^2 = -2$

 $\{0.25, -0.25\}$ 

17)  $6m^2 - 5 = 133$

 $\{4.796, -4.796\}$ 

19)  $-7 - 10x^2 = -137$

 $\{3.606, -3.606\}$ 

21)  $8r^2 + 8 = 168$

 $\{4.472, -4.472\}$ 

23)  $7x^2 + 2 = 450$

 $\{8, -8\}$ 

25)  $5a^2 - 4 = 1$

 $\{1, -1\}$ 

27)  $5b^2 - 1 = 494$

 $\{9.95, -9.95\}$ 

29)  $9x^2 + 4 = 40$

 $\{2, -2\}$ 

31)  $5x^2 + 8 = 118$

 $\{4.69, -4.69\}$ 

2)  $5m^2 - 1 = 324$

 $\{8.062, -8.062\}$ 

4)  $8n^2 - 2 = 502$

 $\{7.937, -7.937\}$ 

6)  $10v^2 + 2 = -75$

No solution.

8)  $4p^2 + 9 = -47$

No solution.

10)  $3a^2 + 4 = 31$

 $\{3, -3\}$ 

12)  $3n^2 + 9 = 171$

 $\{7.348, -7.348\}$ 

14)  $4x^2 - 10 = 118$

 $\{5.657, -5.657\}$ 

16)  $6x^2 + 10 = 124$

 $\{4.359, -4.359\}$ 

18)  $-10 + 49r^2 = 54$

 $\{1.143, -1.143\}$ 

20)  $4n^2 + 2 = 102$

 $\{5, -5\}$ 

22)  $3n^2 + 1 = -52$

No solution.

24)  $4m^2 + 9 = -48$

No solution.

26)  $10n^2 + 10 = 820$

 $\{9, -9\}$ 

28)  $-4 + 64x^2 = 45$

 $\{0.875, -0.875\}$ 

30)  $2x^2 - 2 = 66$

 $\{5.831, -5.831\}$ 

32)  $9r^2 - 10 = 395$

 $\{6.708, -6.708\}$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $7n^2 + 5 = 12$

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

3)  $5m^2 + 5 = 80$

4)  $64m^2 - 5 = 20$

5)  $16x^2 - 3 = 13$

6)  $8x^2 + 2 = 546$

7)  $6a^2 - 9 = 375$

8)  $2a^2 - 6 = 66$

9)  $7x^2 - 1 = 251$

10)  $6a^2 - 3 = 189$

11)  $4m^2 - 7 = 157$

12)  $10r^2 - 10 = 800$

13)  $5a^2 + 3 = -45$

14)  $3v^2 + 1 = 76$

15)  $9m^2 + 5 = 293$

16)  $4v^2 + 5 = 293$

17)  $5x^2 - 8 = 492$

18)  $6v^2 - 2 = 526$

19)  $8p^2 + 5 = 709$

20)  $6m^2 + 5 = 557$

21)  $2x^2 + 5 = 191$

22)  $4n^2 + 5 = 321$

23)  $7n^2 + 8 = 575$

24)  $7v^2 + 6 = 272$

25)  $8n^2 + 10 = 810$

26)  $9v^2 - 9 = 91$

27)  $25n^2 - 5 = 4$

28)  $7x^2 + 7 = 119$

29)  $64x^2 - 10 = 15$

30)  $7n^2 - 10 = 368$

31)  $6v^2 + 7 = 493$

32)  $4m^2 + 10 = 222$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $7n^2 + 5 = 12$

 $\{1, -1\}$ 

3)  $5m^2 + 5 = 80$

 $\{3.873, -3.873\}$ 

5)  $16x^2 - 3 = 13$

 $\{1, -1\}$ 

7)  $6a^2 - 9 = 375$

 $\{8, -8\}$ 

9)  $7x^2 - 1 = 251$

 $\{6, -6\}$ 

11)  $4m^2 - 7 = 157$

 $\{6.403, -6.403\}$ 

13)  $5a^2 + 3 = -45$

No solution.

15)  $9m^2 + 5 = 293$

 $\{5.657, -5.657\}$ 

17)  $5x^2 - 8 = 492$

 $\{10, -10\}$ 

19)  $8p^2 + 5 = 709$

 $\{9.381, -9.381\}$ 

21)  $2x^2 + 5 = 191$

 $\{9.644, -9.644\}$ 

23)  $7n^2 + 8 = 575$

 $\{9, -9\}$ 

25)  $8n^2 + 10 = 810$

 $\{10, -10\}$ 

27)  $25n^2 - 5 = 4$

 $\{0.6, -0.6\}$ 

29)  $64x^2 - 10 = 15$

 $\{0.625, -0.625\}$ 

31)  $6v^2 + 7 = 493$

 $\{9, -9\}$ 

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

No solution.

4)  $64m^2 - 5 = 20$

 $\{0.625, -0.625\}$ 

6)  $8x^2 + 2 = 546$

 $\{8.246, -8.246\}$ 

8)  $2a^2 - 6 = 66$

 $\{6, -6\}$ 

10)  $6a^2 - 3 = 189$

 $\{5.657, -5.657\}$ 

12)  $10r^2 - 10 = 800$

 $\{9, -9\}$ 

14)  $3v^2 + 1 = 76$

 $\{5, -5\}$ 

16)  $4v^2 + 5 = 293$

 $\{8.485, -8.485\}$ 

18)  $6v^2 - 2 = 526$

 $\{9.381, -9.381\}$ 

20)  $6m^2 + 5 = 557$

 $\{9.592, -9.592\}$ 

22)  $4n^2 + 5 = 321$

 $\{8.888, -8.888\}$ 

24)  $7v^2 + 6 = 272$

 $\{6.164, -6.164\}$ 

26)  $9v^2 - 9 = 91$

 $\{3.333, -3.333\}$ 

28)  $7x^2 + 7 = 119$

 $\{4, -4\}$ 

30)  $7n^2 - 10 = 368$

 $\{7.348, -7.348\}$ 

32)  $4m^2 + 10 = 222$

 $\{7.28, -7.28\}$



## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $6r^2 - 4 = -52$

2)  $64x^2 - 8 = 28$

3)  $3a^2 - 4 = 23$

4)  $10x^2 + 8 = 28$

5)  $7b^2 + 5 = 33$

6)  $36k^2 - 3 = 97$

7)  $5v^2 + 6 = 251$

8)  $81a^2 - 5 = 20$

9)  $3n^2 + 7 = 46$

10)  $2x^2 - 3 = -40$

11)  $3m^2 + 3 = 222$

12)  $4r^2 - 5 = 191$

13)  $6n^2 + 6 = -17$

14)  $7x^2 - 9 = 544$

15)  $8x^2 + 6 = 366$

16)  $3 - 6k^2 = -51$

17)  $1 - 9x^2 = -260$

18)  $6r^2 + 8 = 14$

19)  $16m^2 - 1 = 99$

20)  $9n^2 + 6 = 7$

21)  $81m^2 - 6 = 19$

22)  $3r^2 - 7 = 158$

23)  $100x^2 - 3 = 13$

24)  $6x^2 + 5 = 245$

25)  $4x^2 + 6 = -79$

26)  $7x^2 + 9 = -89$

27)  $-7 - 7b^2 = -525$

28)  $2a^2 + 2 = 130$

29)  $3x^2 - 5 = 4$

30)  $7x^2 + 10 = 213$

31)  $4x^2 + 7 = 239$

32)  $100p^2 - 10 = 90$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $6r^2 - 4 = -52$

**No solution.**

3)  $3a^2 - 4 = 23$

**{3, -3}**

5)  $7b^2 + 5 = 33$

**{2, -2}**

7)  $5v^2 + 6 = 251$

**{7, -7}**

9)  $3n^2 + 7 = 46$

**{3.606, -3.606}**

11)  $3m^2 + 3 = 222$

**{8.544, -8.544}**

13)  $6n^2 + 6 = -17$

**No solution.**

15)  $8x^2 + 6 = 366$

**{6.708, -6.708}**

17)  $1 - 9x^2 = -260$

**{5.385, -5.385}**

19)  $16m^2 - 1 = 99$

**{2.5, -2.5}**

21)  $81m^2 - 6 = 19$

**{0.556, -0.556}**

23)  $100x^2 - 3 = 13$

**{0.4, -0.4}**

25)  $4x^2 + 6 = -79$

**No solution.**

27)  $-7 - 7b^2 = -525$

**{8.602, -8.602}**

29)  $3x^2 - 5 = 4$

**{1.732, -1.732}**

31)  $4x^2 + 7 = 239$

**{7.616, -7.616}**

2)  $64x^2 - 8 = 28$

**{0.75, -0.75}**

4)  $10x^2 + 8 = 28$

**{1.414, -1.414}**

6)  $36k^2 - 3 = 97$

**{1.667, -1.667}**

8)  $81a^2 - 5 = 20$

**{0.556, -0.556}**

10)  $2x^2 - 3 = -40$

**No solution.**

12)  $4r^2 - 5 = 191$

**{7, -7}**

14)  $7x^2 - 9 = 544$

**{8.888, -8.888}**

16)  $3 - 6k^2 = -51$

**{3, -3}**

18)  $6r^2 + 8 = 14$

**{1, -1}**

20)  $9n^2 + 6 = 7$

**{0.333, -0.333}**

22)  $3r^2 - 7 = 158$

**{7.416, -7.416}**

24)  $6x^2 + 5 = 245$

**{6.325, -6.325}**

26)  $7x^2 + 9 = -89$

**No solution.**

28)  $2a^2 + 2 = 130$

**{8, -8}**

30)  $7x^2 + 10 = 213$

**{5.385, -5.385}**

32)  $100p^2 - 10 = 90$

**{1, -1}**

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $-9 - 10r^2 = -1009$

2)  $4a^2 - 7 = 9$

3)  $7m^2 + 3 = 157$

4)  $6m^2 - 3 = 213$

5)  $2 - 10a^2 = -38$

6)  $6 - 3x^2 = -195$

7)  $9x^2 - 3 = 402$

8)  $-5 - 3p^2 = -53$

9)  $49n^2 + 10 = 11$

10)  $5p^2 + 7 = 367$

11)  $4x^2 - 7 = 93$

12)  $6n^2 - 9 = 591$

13)  $10p^2 + 10 = 820$

14)  $5n^2 - 7 = 63$

15)  $2 - 9n^2 = -898$

16)  $5x^2 + 9 = 54$

17)  $10a^2 + 1 = 421$

18)  $9k^2 + 3 = 84$

19)  $3x^2 - 8 = 25$

20)  $7x^2 - 1 = 300$

21)  $4x^2 + 2 = 146$

22)  $3n^2 + 10 = 22$

23)  $5k^2 - 1 = 374$

24)  $10n^2 + 1 = 141$

25)  $-10 - 3m^2 = -13$

26)  $7p^2 + 7 = 245$

27)  $-4 + 81n^2 = -3$

28)  $10m^2 + 7 = 417$

29)  $7v^2 - 2 = -72$

30)  $5n^2 - 5 = 150$

31)  $3n^2 + 4 = 55$

32)  $4v^2 + 2 = 234$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $-9 - 10r^2 = -1009$

 $\{10, -10\}$ 

3)  $7m^2 + 3 = 157$

 $\{4.69, -4.69\}$ 

5)  $2 - 10a^2 = -38$

 $\{2, -2\}$ 

7)  $9x^2 - 3 = 402$

 $\{6.708, -6.708\}$ 

9)  $49n^2 + 10 = 11$

 $\{0.143, -0.143\}$ 

11)  $4x^2 - 7 = 93$

 $\{5, -5\}$ 

13)  $10p^2 + 10 = 820$

 $\{9, -9\}$ 

15)  $2 - 9n^2 = -898$

 $\{10, -10\}$ 

17)  $10a^2 + 1 = 421$

 $\{6.481, -6.481\}$ 

19)  $3x^2 - 8 = 25$

 $\{3.317, -3.317\}$ 

21)  $4x^2 + 2 = 146$

 $\{6, -6\}$ 

23)  $5k^2 - 1 = 374$

 $\{8.66, -8.66\}$ 

25)  $-10 - 3m^2 = -13$

 $\{1, -1\}$ 

27)  $-4 + 81n^2 = -3$

 $\{0.111, -0.111\}$ 

29)  $7v^2 - 2 = -72$

No solution.

31)  $3n^2 + 4 = 55$

 $\{4.123, -4.123\}$ 

2)  $4a^2 - 7 = 9$

 $\{2, -2\}$ 

4)  $6m^2 - 3 = 213$

 $\{6, -6\}$ 

6)  $6 - 3x^2 = -195$

 $\{8.185, -8.185\}$ 

8)  $-5 - 3p^2 = -53$

 $\{4, -4\}$ 

10)  $5p^2 + 7 = 367$

 $\{8.485, -8.485\}$ 

12)  $6n^2 - 9 = 591$

 $\{10, -10\}$ 

14)  $5n^2 - 7 = 63$

 $\{3.742, -3.742\}$ 

16)  $5x^2 + 9 = 54$

 $\{3, -3\}$ 

18)  $9k^2 + 3 = 84$

 $\{3, -3\}$ 

20)  $7x^2 - 1 = 300$

 $\{6.557, -6.557\}$ 

22)  $3n^2 + 10 = 22$

 $\{2, -2\}$ 

24)  $10n^2 + 1 = 141$

 $\{3.742, -3.742\}$ 

26)  $7p^2 + 7 = 245$

 $\{5.831, -5.831\}$ 

28)  $10m^2 + 7 = 417$

 $\{6.403, -6.403\}$ 

30)  $5n^2 - 5 = 150$

 $\{5.568, -5.568\}$ 

32)  $4v^2 + 2 = 234$

 $\{7.616, -7.616\}$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $4v^2 + 2 = -48$

2)  $3r^2 + 2 = 278$

3)  $9m^2 - 10 = 71$

4)  $7x^2 + 6 = 300$

5)  $3v^2 - 3 = 297$

6)  $-9 - 9p^2 = -38$

7)  $2r^2 + 9 = 155$

8)  $7m^2 + 10 = 115$

9)  $3x^2 + 4 = 139$

10)  $6 - 4m^2 = -378$

11)  $8m^2 + 3 = 99$

12)  $5x^2 + 1 = 376$

13)  $-1 + 4x^2 = 80$

14)  $9 + 9x^2 = 45$

15)  $-6 - 2r^2 = -24$

16)  $100n^2 + 10 = 91$

17)  $3b^2 - 7 = -36$

18)  $4x^2 + 4 = 85$

19)  $3b^2 - 10 = -49$

20)  $6n^2 - 3 = 291$

21)  $-8 - 10b^2 = -728$

22)  $2b^2 + 4 = 12$

23)  $7v^2 - 2 = 187$

24)  $3v^2 - 3 = 0$

25)  $7x^2 - 5 = 695$

26)  $81x^2 + 6 = 10$

27)  $5p^2 - 5 = 400$

28)  $4k^2 - 9 = 203$

29)  $10m^2 - 5 = 885$

30)  $4r^2 - 7 = 9$

31)  $4b^2 - 9 = 247$

32)  $64x^2 - 5 = 44$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each equation by taking square roots.

1)  $4v^2 + 2 = -48$

No solution.

2)  $3r^2 + 2 = 278$

 $\{9.592, -9.592\}$ 

3)  $9m^2 - 10 = 71$

 $\{3, -3\}$ 

4)  $7x^2 + 6 = 300$

 $\{6.481, -6.481\}$ 

5)  $3v^2 - 3 = 297$

 $\{10, -10\}$ 

6)  $-9 - 9p^2 = -38$

 $\{1.795, -1.795\}$ 

7)  $2r^2 + 9 = 155$

 $\{8.544, -8.544\}$ 

8)  $7m^2 + 10 = 115$

 $\{3.873, -3.873\}$ 

9)  $3x^2 + 4 = 139$

 $\{6.708, -6.708\}$ 

10)  $6 - 4m^2 = -378$

 $\{9.798, -9.798\}$ 

11)  $8m^2 + 3 = 99$

 $\{3.464, -3.464\}$ 

12)  $5x^2 + 1 = 376$

 $\{8.66, -8.66\}$ 

13)  $-1 + 4x^2 = 80$

 $\{4.5, -4.5\}$ 

14)  $9 + 9x^2 = 45$

 $\{2, -2\}$ 

15)  $-6 - 2r^2 = -24$

 $\{3, -3\}$ 

16)  $100n^2 + 10 = 91$

 $\{0.9, -0.9\}$ 

17)  $3b^2 - 7 = -36$

No solution.

18)  $4x^2 + 4 = 85$

 $\{4.5, -4.5\}$ 

19)  $3b^2 - 10 = -49$

No solution.

20)  $6n^2 - 3 = 291$

 $\{7, -7\}$ 

21)  $-8 - 10b^2 = -728$

 $\{8.485, -8.485\}$ 

22)  $2b^2 + 4 = 12$

 $\{2, -2\}$ 

23)  $7v^2 - 2 = 187$

 $\{5.196, -5.196\}$ 

24)  $3v^2 - 3 = 0$

 $\{1, -1\}$ 

25)  $7x^2 - 5 = 695$

 $\{10, -10\}$ 

26)  $81x^2 + 6 = 10$

 $\{0.222, -0.222\}$ 

27)  $5p^2 - 5 = 400$

 $\{9, -9\}$ 

28)  $4k^2 - 9 = 203$

 $\{7.28, -7.28\}$ 

29)  $10m^2 - 5 = 885$

 $\{9.434, -9.434\}$ 

30)  $4r^2 - 7 = 9$

 $\{2, -2\}$ 

31)  $4b^2 - 9 = 247$

 $\{8, -8\}$ 

32)  $64x^2 - 5 = 44$

 $\{0.875, -0.875\}$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $9x^2 - 7 = 371$

2)  $4a^2 + 10 = 250$

3)  $-8 - 3b^2 = -22$

4)  $4x^2 + 2 = 38$

5)  $100x^2 + 3 = 19$

6)  $4p^2 - 10 = 62$

7)  $81a^2 + 1 = 101$

8)  $4n^2 + 8 = 332$

9)  $-1 - 3x^2 = -244$

10)  $9k^2 + 7 = 43$

11)  $6m^2 - 4 = 416$

12)  $7x^2 + 4 = 32$

13)  $8x^2 - 5 = 203$

14)  $4 - 4k^2 = -51$

15)  $2n^2 + 7 = 79$

16)  $100n^2 - 3 = 61$

17)  $-3 - 5k^2 = -82$

18)  $6x^2 - 7 = 77$

19)  $10x^2 - 3 = 637$

20)  $5n^2 - 5 = 75$

21)  $1 - 6x^2 = -455$

22)  $7m^2 + 6 = 13$

23)  $6x^2 + 4 = 604$

24)  $8a^2 - 4 = 708$

25)  $5n^2 + 10 = 465$

26)  $5x^2 + 6 = 416$

27)  $16b^2 - 10 = 54$

28)  $6a^2 + 9 = 363$

29)  $6n^2 - 1 = -111$

30)  $7r^2 + 7 = 630$

31)  $9x^2 - 3 = 78$

32)  $49b^2 - 9 = 72$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $9x^2 - 7 = 371$

 $\{6.481, -6.481\}$ 

3)  $-8 - 3b^2 = -22$

 $\{2.16, -2.16\}$ 

5)  $100x^2 + 3 = 19$

 $\{0.4, -0.4\}$ 

7)  $81a^2 + 1 = 101$

 $\{1.111, -1.111\}$ 

9)  $-1 - 3x^2 = -244$

 $\{9, -9\}$ 

11)  $6m^2 - 4 = 416$

 $\{8.367, -8.367\}$ 

13)  $8x^2 - 5 = 203$

 $\{5.099, -5.099\}$ 

15)  $2n^2 + 7 = 79$

 $\{6, -6\}$ 

17)  $-3 - 5k^2 = -82$

 $\{3.975, -3.975\}$ 

19)  $10x^2 - 3 = 637$

 $\{8, -8\}$ 

21)  $1 - 6x^2 = -455$

 $\{8.718, -8.718\}$ 

23)  $6x^2 + 4 = 604$

 $\{10, -10\}$ 

25)  $5n^2 + 10 = 465$

 $\{9.539, -9.539\}$ 

27)  $16b^2 - 10 = 54$

 $\{2, -2\}$ 

29)  $6n^2 - 1 = -111$

No solution.

31)  $9x^2 - 3 = 78$

 $\{3, -3\}$ 

2)  $4a^2 + 10 = 250$

 $\{7.746, -7.746\}$ 

4)  $4x^2 + 2 = 38$

 $\{3, -3\}$ 

6)  $4p^2 - 10 = 62$

 $\{4.243, -4.243\}$ 

8)  $4n^2 + 8 = 332$

 $\{9, -9\}$ 

10)  $9k^2 + 7 = 43$

 $\{2, -2\}$ 

12)  $7x^2 + 4 = 32$

 $\{2, -2\}$ 

14)  $4 - 4k^2 = -51$

 $\{3.708, -3.708\}$ 

16)  $100n^2 - 3 = 61$

 $\{0.8, -0.8\}$ 

18)  $6x^2 - 7 = 77$

 $\{3.742, -3.742\}$ 

20)  $5n^2 - 5 = 75$

 $\{4, -4\}$ 

22)  $7m^2 + 6 = 13$

 $\{1, -1\}$ 

24)  $8a^2 - 4 = 708$

 $\{9.434, -9.434\}$ 

26)  $5x^2 + 6 = 416$

 $\{9.055, -9.055\}$ 

28)  $6a^2 + 9 = 363$

 $\{7.681, -7.681\}$ 

30)  $7r^2 + 7 = 630$

 $\{9.434, -9.434\}$ 

32)  $49b^2 - 9 = 72$

 $\{1.286, -1.286\}$



## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $2r^2 + 2 = 10$

2)  $-2 + 9b^2 = 62$

3)  $7x^2 + 7 = 595$

4)  $25m^2 - 3 = 46$

5)  $3x^2 - 4 = 104$

6)  $3 - 10x^2 = -7$

7)  $5n^2 + 8 = 48$

8)  $4p^2 + 7 = 407$

9)  $5k^2 - 5 = 405$

10)  $2x^2 + 7 = 15$

11)  $25x^2 + 8 = 44$

12)  $9r^2 - 5 = 166$

13)  $3x^2 - 2 = -25$

14)  $9n^2 - 2 = 880$

15)  $6n^2 - 7 = 251$

16)  $4x^2 - 9 = 299$

17)  $-4 + 81b^2 = 77$

18)  $6n^2 - 10 = 140$

19)  $6n^2 + 3 = 189$

20)  $10a^2 - 8 = -107$

21)  $10r^2 - 8 = 542$

22)  $3x^2 + 8 = 125$

23)  $9n^2 + 1 = 37$

24)  $4 - 3a^2 = -254$

25)  $8n^2 - 9 = 23$

26)  $9b^2 + 4 = 130$

27)  $9x^2 + 8 = 332$

28)  $10n^2 + 5 = 345$

29)  $7n^2 - 5 = 380$

30)  $4n^2 - 3 = 313$

31)  $7p^2 + 2 = 79$

32)  $25n^2 + 10 = 11$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $2r^2 + 2 = 10$

 $\{2, -2\}$ 

3)  $7x^2 + 7 = 595$

 $\{9.165, -9.165\}$ 

5)  $3x^2 - 4 = 104$

 $\{6, -6\}$ 

7)  $5n^2 + 8 = 48$

 $\{2.828, -2.828\}$ 

9)  $5k^2 - 5 = 405$

 $\{9.055, -9.055\}$ 

11)  $25x^2 + 8 = 44$

 $\{1.2, -1.2\}$ 

13)  $3x^2 - 2 = -25$

No solution.

15)  $6n^2 - 7 = 251$

 $\{6.557, -6.557\}$ 

17)  $-4 + 81b^2 = 77$

 $\{1, -1\}$ 

19)  $6n^2 + 3 = 189$

 $\{5.568, -5.568\}$ 

21)  $10r^2 - 8 = 542$

 $\{7.416, -7.416\}$ 

23)  $9n^2 + 1 = 37$

 $\{2, -2\}$ 

25)  $8n^2 - 9 = 23$

 $\{2, -2\}$ 

27)  $9x^2 + 8 = 332$

 $\{6, -6\}$ 

29)  $7n^2 - 5 = 380$

 $\{7.416, -7.416\}$ 

31)  $7p^2 + 2 = 79$

 $\{3.317, -3.317\}$ 

2)  $-2 + 9b^2 = 62$

 $\{2.667, -2.667\}$ 

4)  $25m^2 - 3 = 46$

 $\{1.4, -1.4\}$ 

6)  $3 - 10x^2 = -7$

 $\{1, -1\}$ 

8)  $4p^2 + 7 = 407$

 $\{10, -10\}$ 

10)  $2x^2 + 7 = 15$

 $\{2, -2\}$ 

12)  $9r^2 - 5 = 166$

 $\{4.359, -4.359\}$ 

14)  $9n^2 - 2 = 880$

 $\{9.899, -9.899\}$ 

16)  $4x^2 - 9 = 299$

 $\{8.775, -8.775\}$ 

18)  $6n^2 - 10 = 140$

 $\{5, -5\}$ 

20)  $10a^2 - 8 = -107$

No solution.

22)  $3x^2 + 8 = 125$

 $\{6.245, -6.245\}$ 

24)  $4 - 3a^2 = -254$

 $\{9.274, -9.274\}$ 

26)  $9b^2 + 4 = 130$

 $\{3.742, -3.742\}$ 

28)  $10n^2 + 5 = 345$

 $\{5.831, -5.831\}$ 

30)  $4n^2 - 3 = 313$

 $\{8.888, -8.888\}$ 

32)  $25n^2 + 10 = 11$

 $\{0.2, -0.2\}$

## Assignment

**Solve each equation by taking square roots.**

1)  $100n^2 + 5 = 69$

2)  $4p^2 - 7 = 29$

3)  $-4 - 4v^2 = -104$

4)  $7m^2 - 9 = -109$

5)  $8p^2 - 4 = 284$

6)  $3n^2 - 5 = 142$

7)  $49x^2 - 5 = 76$

8)  $2x^2 + 7 = 155$

9)  $7v^2 + 8 = 71$

10)  $6r^2 - 1 = 575$

11)  $8 - 7a^2 = 1$

12)  $4r^2 - 9 = -8$

13)  $10n^2 - 5 = 15$

14)  $6n^2 + 9 = 207$

15)  $10x^2 - 10 = 800$

16)  $8p^2 + 4 = 364$

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

18)  $8x^2 - 9 = 119$

19)  $-10 - 7n^2 = -262$

20)  $4n^2 - 8 = 92$

21)  $9 - 2x^2 = -27$

22)  $9p^2 + 7 = 187$

23)  $6x^2 - 9 = -63$

24)  $7n^2 - 6 = -53$

25)  $7x^2 - 10 = 333$

26)  $9k^2 + 4 = 40$

27)  $-6 + 64r^2 = -5$

28)  $9m^2 + 1 = 757$

29)  $1 - 2a^2 = -17$

30)  $2v^2 + 8 = 10$

31)  $100n^2 + 10 = 59$

32)  $5m^2 - 3 = 447$

## Assignment

Solve each equation by taking square roots.

1)  $100n^2 + 5 = 69$

 $\{0.8, -0.8\}$ 

3)  $-4 - 4v^2 = -104$

 $\{5, -5\}$ 

5)  $8p^2 - 4 = 284$

 $\{6, -6\}$ 

7)  $49x^2 - 5 = 76$

 $\{1.286, -1.286\}$ 

9)  $7v^2 + 8 = 71$

 $\{3, -3\}$ 

11)  $8 - 7a^2 = 1$

 $\{1, -1\}$ 

13)  $10n^2 - 5 = 15$

 $\{1.414, -1.414\}$ 

15)  $10x^2 - 10 = 800$

 $\{9, -9\}$ 

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

 $\{1, -1\}$ 

19)  $-10 - 7n^2 = -262$

 $\{6, -6\}$ 

21)  $9 - 2x^2 = -27$

 $\{4.243, -4.243\}$ 

23)  $6x^2 - 9 = -63$

No solution.

25)  $7x^2 - 10 = 333$

 $\{7, -7\}$ 

27)  $-6 + 64r^2 = -5$

 $\{0.125, -0.125\}$ 

29)  $1 - 2a^2 = -17$

 $\{3, -3\}$ 

31)  $100n^2 + 10 = 59$

 $\{0.7, -0.7\}$ 

2)  $4p^2 - 7 = 29$

 $\{3, -3\}$ 

4)  $7m^2 - 9 = -109$

No solution.

6)  $3n^2 - 5 = 142$

 $\{7, -7\}$ 

8)  $2x^2 + 7 = 155$

 $\{8.602, -8.602\}$ 

10)  $6r^2 - 1 = 575$

 $\{9.798, -9.798\}$ 

12)  $4r^2 - 9 = -8$

 $\{0.5, -0.5\}$ 

14)  $6n^2 + 9 = 207$

 $\{5.745, -5.745\}$ 

16)  $8p^2 + 4 = 364$

 $\{6.708, -6.708\}$ 

18)  $8x^2 - 9 = 119$

 $\{4, -4\}$ 

20)  $4n^2 - 8 = 92$

 $\{5, -5\}$ 

22)  $9p^2 + 7 = 187$

 $\{4.472, -4.472\}$ 

24)  $7n^2 - 6 = -53$

No solution.

26)  $9k^2 + 4 = 40$

 $\{2, -2\}$ 

28)  $9m^2 + 1 = 757$

 $\{9.165, -9.165\}$ 

30)  $2v^2 + 8 = 10$

 $\{1, -1\}$ 

32)  $5m^2 - 3 = 447$

 $\{9.487, -9.487\}$