Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 - 20n + 106 = 10$

2) $a^2 - 14a - 67 = 6$

3) $p^2 + 18p + 75 = 4$

4) $r^2 - 12r - 62 = -7$

5) $n^2 - 6n - 51 = 4$

6) $x^2 + 18x + 25 = 8$

7) $a^2 + 6a - 49 = 6$

8) $x^2 + 4x - 83 = -6$

9) $r^2 + 14r + 55 = 7$

10) $a^2 - 4a - 61 = -5$

11) $n^2 + 16n + 52 = -3$

12) $p^2 + 6p - 11 = -4$

13) $x^2 - 2x - 39 = -4$

14) $p^2 - 18p + 68 = -9$

15) $m^2 - 18m + 57 = 9$

16) $p^2 - 8p + 13 = 6$

17) $k^2 + 8k - 79 = 9$

18) $n^2 + 2n - 3 = 5$

19) $k^2 - 2k - 19 = 3$

20) $b^2 + 20b - 86 = 10$

21) $x^2 + 4x - 14 = 6$

22) $r^2 - 10r - 25 = 9$

23) $v^2 - 4v - 49 = -4$

24) $n^2 - 12n - 13 = -6$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 - 20n + 106 = 10$

{12, 8}

2) $a^2 - 14a - 67 = 6$

{18.045, –4.045}

3) $p^2 + 18p + 75 = 4$

{–5.838, –12.162}

4) $r^2 - 12r - 62 = -7$

{15.539, –3.539}

5) $n^2 - 6n - 51 = 4$

{11, –5}

6) $x^2 + 18x + 25 = 8$

{–1, –17}

7) $a^2 + 6a - 49 = 6$

{5, –11}

8) $x^2 + 4x - 83 = -6$

{7, –11}

9) $r^2 + 14r + 55 = 7$

{–6, –8}

10) $a^2 - 4a - 61 = -5$

{9.746, –5.746}

11) $n^2 + 16n + 52 = -3$

{–5, –11}

12) $p^2 + 6p - 11 = -4$

{1, –7}

13) $x^2 - 2x - 39 = -4$

{7, –5}

14) $p^2 - 18p + 68 = -9$

{11, 7}

15) $m^2 - 18m + 57 = 9$

{14.745, 3.255}

16) $p^2 - 8p + 13 = 6$

{7, 1}

17) $k^2 + 8k - 79 = 9$

{6.198, –14.198}

18) $n^2 + 2n - 3 = 5$

{2, –4}

19) $k^2 - 2k - 19 = 3$

{5.796, –3.796}

20) $b^2 + 20b - 86 = 10$

{4, –24}

21) $x^2 + 4x - 14 = 6$

{2.899, –6.899}

22) $r^2 - 10r - 25 = 9$

{12.681, –2.681}

23) $v^2 - 4v - 49 = -4$

{9, –5}

24) $n^2 - 12n - 13 = -6$

{12.557, –0.557}

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 + 4n - 46 = 2$

2) $r^2 + 18r + 57 = -7$

3) $n^2 - 4n + 1 = 10$

4) $n^2 - 4n - 52 = -2$

5) $n^2 + 14n + 36 = -9$

6) $n^2 + 8n + 17 = 2$

7) $k^2 + 10k + 11 = 2$

8) $r^2 - 8r - 20 = 2$

9) $x^2 - 6x - 1 = 6$

10) $a^2 - 16a - 36 = 5$

11) $r^2 + 2r - 43 = -8$

12) $m^2 + 2m + 2 = 8$

13) $p^2 + 18p + 88 = 8$

14) $x^2 - 8x - 75 = -10$

15) $a^2 - 20a + 91 = 10$

16) $k^2 - 4k - 9 = 3$

17) $a^2 + 14a - 40 = -6$

18) $p^2 - 10p + 10 = 9$

19) $x^2 + 10x - 99 = -7$

20) $m^2 + 10m - 40 = 5$

21) $b^2 + 8b - 20 = -9$

22) $p^2 - 14p - 46 = 5$

23) $r^2 + 16r + 3 = -10$

24) $x^2 + 10x - 91 = 5$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 + 4n - 46 = 2$

{5.211, –9.211}

2) $r^2 + 18r + 57 = -7$

{–4.877, –13.123}

3) $n^2 - 4n + 1 = 10$

{5.606, –1.606}

4) $n^2 - 4n - 52 = -2$

{9.348, –5.348}

5) $n^2 + 14n + 36 = -9$

{–5, –9}

6) $n^2 + 8n + 17 = 2$

{–3, –5}

7) $k^2 + 10k + 11 = 2$

{–1, –9}

8) $r^2 - 8r - 20 = 2$

{10.164, –2.164}

9) $x^2 - 6x - 1 = 6$

{7, –1}

10) $a^2 - 16a - 36 = 5$

{18.247, –2.247}

11) $r^2 + 2r - 43 = -8$

{5, –7}

12) $m^2 + 2m + 2 = 8$

{1.646, –3.646}

13) $p^2 + 18p + 88 = 8$

{–8, –10}

14) $x^2 - 8x - 75 = -10$

{13, –5}

15) $a^2 - 20a + 91 = 10$

{14.359, 5.641}

16) $k^2 - 4k - 9 = 3$

{6, –2}

17) $a^2 + 14a - 40 = -6$

{2.11, –16.11}

18) $p^2 - 10p + 10 = 9$

{9.899, 0.101}

19) $x^2 + 10x - 99 = -7$

{5.817, –15.817}

20) $m^2 + 10m - 40 = 5$

{3.367, –13.367}

21) $b^2 + 8b - 20 = -9$

{1.196, –9.196}

22) $p^2 - 14p - 46 = 5$

{17, –3}

23) $r^2 + 16r + 3 = -10$

{–0.859, –15.141}

24) $x^2 + 10x - 91 = 5$

{6, –16}

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $r^2 + 8r - 50 = 2$

2) $a^2 + 10a - 46 = -2$

3) $a^2 - 18a + 47 = -4$

4) $n^2 + 16n - 63 = -6$

5) $a^2 + 14a + 46 = -2$

6) $v^2 - 2v - 54 = 9$

7) $b^2 - 2b - 46 = -5$

8) $b^2 + 4b - 78 = -6$

9) $x^2 - 16x - 33 = 3$

10) $x^2 + 4x - 8 = -7$

11) $a^2 + 20a - 66 = 3$

12) $n^2 - 2n + 4 = 7$

13) $x^2 - 16x + 66 = 6$

14) $v^2 - 12v + 39 = 7$

15) $x^2 + 8x - 43 = 5$

16) $x^2 + 6x - 82 = -10$

17) $x^2 - 8x - 16 = 10$

18) $n^2 - 20n - 62 = 7$

19) $k^2 - 16k + 43 = 10$

20) $r^2 - 14r + 6 = -7$

21) $m^2 + 18m + 73 = 8$

22) $n^2 + 18n + 52 = -4$

23) $a^2 + 8a - 28 = -8$

24) $a^2 - 4a - 68 = -8$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $r^2 + 8r - 50 = 2$

{4.246, –12.246}

2) $a^2 + 10a - 46 = -2$

{3.307, –13.307}

3) $a^2 - 18a + 47 = -4$

{14.477, 3.523}

4) $n^2 + 16n - 63 = -6$

{3, –19}

5) $a^2 + 14a + 46 = -2$

{–6, –8}

6) $v^2 - 2v - 54 = 9$

{9, –7}

7) $b^2 - 2b - 46 = -5$

{7.481, –5.481}

8) $b^2 + 4b - 78 = -6$

{6.718, –10.718}

9) $x^2 - 16x - 33 = 3$

{18, –2}

10) $x^2 + 4x - 8 = -7$

{0.236, –4.236}

11) $a^2 + 20a - 66 = 3$

{3, –23}

12) $n^2 - 2n + 4 = 7$

{3, –1}

13) $x^2 - 16x + 66 = 6$

{10, 6}

14) $v^2 - 12v + 39 = 7$

{8, 4}

15) $x^2 + 8x - 43 = 5$

{4, –12}

16) $x^2 + 6x - 82 = -10$

{6, –12}

17) $x^2 - 8x - 16 = 10$

{10.481, –2.481}

18) $n^2 - 20n - 62 = 7$

{23, –3}

19) $k^2 - 16k + 43 = 10$

{13.568, 2.432}

20) $r^2 - 14r + 6 = -7$

{13, 1}

21) $m^2 + 18m + 73 = 8$

{–5, –13}

22) $n^2 + 18n + 52 = -4$

{–4, –14}

23) $a^2 + 8a - 28 = -8$

{2, –10}

24) $a^2 - 4a - 68 = -8$

{10, –6}

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 + 2n - 67 = -4$

2) $b^2 + 16b + 46 = -2$

3) $x^2 - 6x - 55 = 2$

4) $k^2 - 4k - 25 = -4$

5) $k^2 + 18k - 46 = 2$

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

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

8) $x^2 + 10x - 106 = -8$

9) $r^2 + 8r - 62 = 6$

10) $p^2 - 10p + 33 = 9$

11) $x^2 + 8x - 12 = -8$

12) $n^2 + 8n - 71 = -5$

13) $x^2 - 20x - 14 = 6$

14) $n^2 + 16n - 78 = 2$

15) $n^2 - 18n + 84 = 7$

16) $x^2 - 10x - 75 = -8$

17) $k^2 - 10k - 91 = 5$

18) $n^2 + 16n - 45 = -9$

19) $n^2 + 2n - 43 = 3$

20) $k^2 + 4k - 27 = 3$

21) $n^2 - 4n - 37 = 8$

22) $b^2 + 6b - 91 = 4$

23) $m^2 + 4m - 86 = 10$

24) $n^2 + 12n - 43 = -9$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 + 2n - 67 = -4$

{7, –9}

2) $b^2 + 16b + 46 = -2$

{–4, –12}

3) $x^2 - 6x - 55 = 2$

{11.124, –5.124}

4) $k^2 - 4k - 25 = -4$

{7, –3}

5) $k^2 + 18k - 46 = 2$

{2.358, –20.358}

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

{0.149, –20.149}

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

{6, –4}

8) $x^2 + 10x - 106 = -8$

{6.091, –16.091}

9) $r^2 + 8r - 62 = 6$

{5.165, –13.165}

10) $p^2 - 10p + 33 = 9$

{6, 4}

11) $x^2 + 8x - 12 = -8$

{0.472, –8.472}

12) $n^2 + 8n - 71 = -5$

{5.055, –13.055}

13) $x^2 - 20x - 14 = 6$

{20.954, –0.954}

14) $n^2 + 16n - 78 = 2$

{4, –20}

15) $n^2 - 18n + 84 = 7$

{11, 7}

16) $x^2 - 10x - 75 = -8$

{14.592, –4.592}

17) $k^2 - 10k - 91 = 5$

{16, –6}

18) $n^2 + 16n - 45 = -9$

{2, –18}

19) $n^2 + 2n - 43 = 3$

{5.856, –7.856}

20) $k^2 + 4k - 27 = 3$

{3.831, –7.831}

21) $n^2 - 4n - 37 = 8$

{9, –5}

22) $b^2 + 6b - 91 = 4$

{7.198, –13.198}

23) $m^2 + 4m - 86 = 10$

{8, –12}

24) $n^2 + 12n - 43 = -9$

{2.367, –14.367}

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $a^2 - 12a + 25 = -7$

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

3) $x^2 + 4x - 2 = -3$

4) $n^2 + 2n - 84 = -4$

5) $a^2 - 20a + 42 = -9$

6) $x^2 + 16x + 30 = -9$

7) $x^2 + 2x - 96 = 3$

8) $p^2 + 4p - 97 = -4$

9) $n^2 + 18n + 17 = 8$

10) $k^2 - 12k - 73 = -7$

11) $n^2 + 18n + 41 = 9$

12) $n^2 - 12n - 39 = 6$

13) $r^2 - 2r - 36 = -9$

14) $n^2 - 8n - 59 = -7$

15) $n^2 + 20n + 59 = -5$

16) $m^2 + 14m + 5 = 3$

17) $n^2 - 14n + 51 = 6$

18) $x^2 - 10x + 23 = 2$

19) $n^2 + 18n + 24 = -5$

20) $x^2 + 20x + 34 = -2$

21) $n^2 - 14n - 7 = 6$

22) $x^2 + 6x - 98 = -7$

23) $r^2 - 16r - 60 = -9$

24) $x^2 + 10x - 28 = -4$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $a^2 - 12a + 25 = -7$

{8, 4}

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

{5, −3}

3) $x^2 + 4x - 2 = -3$

{−0.268, −3.732}

4) $n^2 + 2n - 84 = -4$

{8, −10}

5) $a^2 - 20a + 42 = -9$

{17, 3}

6) $x^2 + 16x + 30 = -9$

{−3, −13}

7) $x^2 + 2x - 96 = 3$

{9, −11}

8) $p^2 + 4p - 97 = -4$

{7.849, −11.849}

9) $n^2 + 18n + 17 = 8$

{−0.515, −17.485}

10) $k^2 - 12k - 73 = -7$

{16.1, −4.1}

11) $n^2 + 18n + 41 = 9$

{−2, −16}

12) $n^2 - 12n - 39 = 6$

{15, −3}

13) $r^2 - 2r - 36 = -9$

{6.292, −4.292}

14) $n^2 - 8n - 59 = -7$

{12.246, −4.246}

15) $n^2 + 20n + 59 = -5$

{−4, −16}

16) $m^2 + 14m + 5 = 3$

{−0.144, −13.856}

17) $n^2 - 14n + 51 = 6$

{9, 5}

18) $x^2 - 10x + 23 = 2$

{7, 3}

19) $n^2 + 18n + 24 = -5$

{−1.789, −16.211}

20) $x^2 + 20x + 34 = -2$

{−2, −18}

21) $n^2 - 14n - 7 = 6$

{14.874, −0.874}

22) $x^2 + 6x - 98 = -7$

{7, −13}

23) $r^2 - 16r - 60 = -9$

{18.724, −2.724}

24) $x^2 + 10x - 28 = -4$

{2, −12}

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 - 18n - 69 = -6$

2) $k^2 - 16k + 71 = 8$

3) $b^2 - 16b + 50 = -10$

4) $b^2 - 8b - 57 = -9$

5) $n^2 - 20n + 72 = -3$

6) $x^2 - 16x + 41 = -7$

7) $x^2 + 16x + 36 = -3$

8) $b^2 + 18b + 62 = -10$

9) $x^2 - 6x - 24 = 7$

10) $x^2 - 16x - 29 = 3$

11) $n^2 - 14n + 48 = 8$

12) $p^2 - 16p - 40 = -4$

13) $x^2 + 20x + 49 = -2$

14) $v^2 + 6v - 42 = 7$

15) $x^2 + 12x + 11 = 8$

16) $x^2 + 20x + 22 = 3$

17) $b^2 + 18b + 82 = 2$

18) $k^2 - 20k - 11 = 10$

19) $x^2 + 10x + 31 = 10$

20) $x^2 + 20x + 92 = -4$

21) $m^2 - 18m - 34 = 6$

22) $x^2 - 2x - 11 = -6$

23) $a^2 + 10a - 32 = -8$

24) $p^2 + 2p - 87 = -7$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 - 18n - 69 = -6$

{21, −3}

2) $k^2 - 16k + 71 = 8$

{9, 7}

3) $b^2 - 16b + 50 = -10$

{10, 6}

4) $b^2 - 8b - 57 = -9$

{12, −4}

5) $n^2 - 20n + 72 = -3$

{15, 5}

6) $x^2 - 16x + 41 = -7$

{12, 4}

7) $x^2 + 16x + 36 = -3$

{−3, −13}

8) $b^2 + 18b + 62 = -10$

{−6, −12}

9) $x^2 - 6x - 24 = 7$

{9.325, −3.325}

10) $x^2 - 16x - 29 = 3$

{17.798, −1.798}

11) $n^2 - 14n + 48 = 8$

{10, 4}

12) $p^2 - 16p - 40 = -4$

{18, −2}

13) $x^2 + 20x + 49 = -2$

{−3, −17}

14) $v^2 + 6v - 42 = 7$

{4.616, −10.616}

15) $x^2 + 12x + 11 = 8$

{−0.255, −11.745}

16) $x^2 + 20x + 22 = 3$

{−1, −19}

17) $b^2 + 18b + 82 = 2$

{−8, −10}

18) $k^2 - 20k - 11 = 10$

{21, −1}

19) $x^2 + 10x + 31 = 10$

{−3, −7}

20) $x^2 + 20x + 92 = -4$

{−8, −12}

21) $m^2 - 18m - 34 = 6$

{20, −2}

22) $x^2 - 2x - 11 = -6$

{3.449, −1.449}

23) $a^2 + 10a - 32 = -8$

{2, −12}

24) $p^2 + 2p - 87 = -7$

{8, −10}

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $x^2 - 4x - 27 = 4$

2) $x^2 + 6x - 37 = -10$

3) $n^2 - 6n + 10 = 2$

4) $a^2 + 2a - 70 = -7$

5) $x^2 + 4x - 69 = -9$

6) $m^2 - 18m + 25 = -7$

7) $x^2 + 8x - 60 = -2$

8) $v^2 - 18v - 58 = 5$

9) $x^2 + 12x - 38 = -5$

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

11) $m^2 + 4m - 106 = -10$

12) $v^2 - 12v - 20 = -5$

13) $p^2 + 10p - 33 = -9$

14) $x^2 - 4x - 78 = 7$

15) $n^2 + 14n - 98 = -3$

16) $n^2 + 10n - 42 = 9$

17) $r^2 - 6r - 75 = -3$

18) $r^2 - 12r + 25 = 5$

19) $r^2 + 2r - 11 = -3$

20) $m^2 - 16m - 24 = -7$

21) $x^2 + 4x - 15 = -3$

22) $x^2 + 2x - 55 = -7$

23) $k^2 - 12k + 2 = -9$

24) $p^2 - 4p - 82 = -5$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $x^2 - 4x - 27 = 4$

{7.916, –3.916}

2) $x^2 + 6x - 37 = -10$

{3, –9}

3) $n^2 - 6n + 10 = 2$

{4, 2}

4) $a^2 + 2a - 70 = -7$

{7, –9}

5) $x^2 + 4x - 69 = -9$

{6, –10}

6) $m^2 - 18m + 25 = -7$

{16, 2}

7) $x^2 + 8x - 60 = -2$

{4.602, –12.602}

8) $v^2 - 18v - 58 = 5$

{21, –3}

9) $x^2 + 12x - 38 = -5$

{2.307, –14.307}

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

{5, 3}

11) $m^2 + 4m - 106 = -10$

{8, –12}

12) $v^2 - 12v - 20 = -5$

{13.141, –1.141}

13) $p^2 + 10p - 33 = -9$

{2, –12}

14) $x^2 - 4x - 78 = 7$

{11.434, –7.434}

15) $n^2 + 14n - 98 = -3$

{5, –19}

16) $n^2 + 10n - 42 = 9$

{3.718, –13.718}

17) $r^2 - 6r - 75 = -3$

{12, –6}

18) $r^2 - 12r + 25 = 5$

{10, 2}

19) $r^2 + 2r - 11 = -3$

{2, –4}

20) $m^2 - 16m - 24 = -7$

{17, –1}

21) $x^2 + 4x - 15 = -3$

{2, –6}

22) $x^2 + 2x - 55 = -7$

{6, –8}

23) $k^2 - 12k + 2 = -9$

{11, 1}

24) $p^2 - 4p - 82 = -5$

{11, –7}

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $b^2 - 16b + 25 = 10$

2) $m^2 + 12m + 8 = 3$

3) $n^2 - 20n - 74 = -5$

4) $a^2 + 18a - 31 = 9$

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

6) $n^2 - 14n - 55 = -4$

7) $m^2 + 12m + 17 = 6$

8) $n^2 - 14n + 27 = 8$

9) $a^2 + 14a - 57 = 4$

10) $k^2 - 2k - 22 = -7$

11) $v^2 - 6v - 60 = 7$

12) $x^2 - 8x - 93 = 4$

13) $x^2 + 20x - 11 = 10$

14) $x^2 - 18x - 32 = 8$

15) $a^2 + 16a - 67 = -10$

16) $r^2 + 16r - 24 = -9$

17) $n^2 - 8n - 18 = -8$

18) $v^2 + 6v - 66 = -8$

19) $r^2 + 18r + 69 = -8$

20) $x^2 - 16x + 40 = 4$

21) $b^2 + 12b - 61 = -2$

22) $n^2 + 8n - 42 = 6$

23) $n^2 + 4n - 55 = 7$

24) $k^2 + 18k + 23 = -4$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $b^2 - 16b + 25 = 10$

{15, 1}

2) $m^2 + 12m + 8 = 3$

{–0.432, –11.568}

3) $n^2 - 20n - 74 = -5$

{23, –3}

4) $a^2 + 18a - 31 = 9$

{2, –20}

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

{2, –4}

6) $n^2 - 14n - 55 = -4$

{17, –3}

7) $m^2 + 12m + 17 = 6$

{–1, –11}

8) $n^2 - 14n + 27 = 8$

{12.477, 1.523}

9) $a^2 + 14a - 57 = 4$

{3.488, –17.488}

10) $k^2 - 2k - 22 = -7$

{5, –3}

11) $v^2 - 6v - 60 = 7$

{11.718, –5.718}

12) $x^2 - 8x - 93 = 4$

{14.63, –6.63}

13) $x^2 + 20x - 11 = 10$

{1, –21}

14) $x^2 - 18x - 32 = 8$

{20, –2}

15) $a^2 + 16a - 67 = -10$

{3, –19}

16) $r^2 + 16r - 24 = -9$

{0.888, –16.888}

17) $n^2 - 8n - 18 = -8$

{9.099, –1.099}

18) $v^2 + 6v - 66 = -8$

{5.185, –11.185}

19) $r^2 + 18r + 69 = -8$

{–7, –11}

20) $x^2 - 16x + 40 = 4$

{13.292, 2.708}

21) $b^2 + 12b - 61 = -2$

{3.747, –15.747}

22) $n^2 + 8n - 42 = 6$

{4, –12}

23) $n^2 + 4n - 55 = 7$

{6.124, –10.124}

24) $k^2 + 18k + 23 = -4$

{–1.652, –16.348}

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 + 16n + 21 = 5$

2) $a^2 - 12a + 13 = 2$

3) $m^2 + 6m - 78 = -6$

4) $r^2 - 6r - 14 = -7$

5) $n^2 - 6n - 90 = -5$

6) $k^2 - 14k - 77 = 6$

7) $x^2 + 16x - 5 = -2$

8) $v^2 + 16v - 21 = -4$

9) $p^2 - 6p - 69 = 3$

10) $p^2 + 12p - 7 = -3$

11) $x^2 + 6x - 21 = -5$

12) $x^2 + 6x - 16 = -9$

13) $n^2 - 18n + 74 = -6$

14) $b^2 - 16b + 41 = -7$

15) $x^2 + 4x - 8 = 4$

16) $n^2 - 4n - 62 = 5$

17) $x^2 + 2x - 52 = -4$

18) $p^2 - 6p + 1 = -4$

19) $r^2 + 14r + 54 = 9$

20) $x^2 + 2x - 95 = -7$

21) $x^2 - 16x - 27 = -10$

22) $n^2 - 16n - 94 = 2$

23) $n^2 + 16n + 23 = 6$

24) $x^2 - 12x - 55 = -10$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $n^2 + 16n + 21 = 5$

{−1.072, −14.928}

2) $a^2 - 12a + 13 = 2$

{11, 1}

3) $m^2 + 6m - 78 = -6$

{6, −12}

4) $r^2 - 6r - 14 = -7$

{7, −1}

5) $n^2 - 6n - 90 = -5$

{12.695, −6.695}

6) $k^2 - 14k - 77 = 6$

{18.489, −4.489}

7) $x^2 + 16x - 5 = -2$

{0.185, −16.185}

8) $v^2 + 16v - 21 = -4$

{1, −17}

9) $p^2 - 6p - 69 = 3$

{12, −6}

10) $p^2 + 12p - 7 = -3$

{0.325, −12.325}

11) $x^2 + 6x - 21 = -5$

{2, −8}

12) $x^2 + 6x - 16 = -9$

{1, −7}

13) $n^2 - 18n + 74 = -6$

{10, 8}

14) $b^2 - 16b + 41 = -7$

{12, 4}

15) $x^2 + 4x - 8 = 4$

{2, −6}

16) $n^2 - 4n - 62 = 5$

{10.426, −6.426}

17) $x^2 + 2x - 52 = -4$

{6, −8}

18) $p^2 - 6p + 1 = -4$

{5, 1}

19) $r^2 + 14r + 54 = 9$

{−5, −9}

20) $x^2 + 2x - 95 = -7$

{8.434, −10.434}

21) $x^2 - 16x - 27 = -10$

{17, −1}

22) $n^2 - 16n - 94 = 2$

{20.649, −4.649}

23) $n^2 + 16n + 23 = 6$

{−1.144, −14.856}

24) $x^2 - 12x - 55 = -10$

{15, −3}

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $m^2 + 18m + 36 = -9$

2) $n^2 - 20n - 81 = -7$

3) $x^2 + 14x + 45 = 5$

4) $b^2 + 16b - 54 = 3$

5) $k^2 - 4k - 24 = -3$

6) $x^2 + 4x - 42 = 3$

7) $x^2 - 10x + 22 = -2$

8) $r^2 - 12r + 12 = -7$

9) $v^2 - 8v + 1 = -6$

10) $a^2 - 20a - 39 = -10$

11) $b^2 + 16b - 88 = 2$

12) $m^2 - 4m + 2 = 7$

13) $x^2 + 8x - 106 = -8$

14) $n^2 + 14n - 102 = -7$

15) $n^2 + 16n - 19 = -2$

16) $v^2 - 14v + 33 = -7$

17) $p^2 + 6p - 81 = 10$

18) $a^2 - 14a - 53 = -2$

19) $x^2 - 18x - 95 = -7$

20) $p^2 + 14p + 25 = -8$

21) $a^2 + 12a - 36 = -8$

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

23) $v^2 + 18v - 44 = -4$

24) $a^2 + 10a - 85 = 8$

Algebra 1 Name_____

Assignment

Date_____ Period____

Solve each equation by completing the square.

1) $m^2 + 18m + 36 = -9$

{–3, –15}

2) $n^2 - 20n - 81 = -7$

{23.191, –3.191}

3) $x^2 + 14x + 45 = 5$

{–4, –10}

4) $b^2 + 16b - 54 = 3$

{3, –19}

5) $k^2 - 4k - 24 = -3$

{7, –3}

6) $x^2 + 4x - 42 = 3$

{5, –9}

7) $x^2 - 10x + 22 = -2$

{6, 4}

8) $r^2 - 12r + 12 = -7$

{10.123, 1.877}

9) $v^2 - 8v + 1 = -6$

{7, 1}

10) $a^2 - 20a - 39 = -10$

{21.358, –1.358}

11) $b^2 + 16b - 88 = 2$

{4.41, –20.41}

12) $m^2 - 4m + 2 = 7$

{5, –1}

13) $x^2 + 8x - 106 = -8$

{6.677, –14.677}

14) $n^2 + 14n - 102 = -7$

{5, –19}

15) $n^2 + 16n - 19 = -2$

{1, –17}

16) $v^2 - 14v + 33 = -7$

{10, 4}

17) $p^2 + 6p - 81 = 10$

{7, –13}

18) $a^2 - 14a - 53 = -2$

{17, –3}

19) $x^2 - 18x - 95 = -7$

{22, –4}

20) $p^2 + 14p + 25 = -8$

{–3, –11}

21) $a^2 + 12a - 36 = -8$

{2, –14}

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

{9, 1}

23) $v^2 + 18v - 44 = -4$

{2, –20}

24) $a^2 + 10a - 85 = 8$

{5.863, –15.863}