Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $98p^2 - 231p - 393 = -1$

2) $15n^2 + 101n = 144 - n$

3) $9x^2 - 3x - 19 = 1$

4) $3m^2 - 22m + 17 = -7$

5) $3x^2 + 47x + 56 = -2x^2$

6) $8r^2 - 13r = 3r^2 - 1 - 7r$

7) $164n^2 - 64n = 32 - 4n^2$

8) $28b^2 - 173b + 24 = -b$

9) $28x^2 - 73x + 52 = 4x + 3$

10) $12v^2 + 36v + 36 = 4v^2$

11) $5n^2 - 43n + 58 = 2$

12) $12a^2 + 20a = -5 + 2a^2 - 7a$

13) $-13 + 14k = 7k - 2k^2 + 2$

14) $0 = -3p - 9p^2 + 42$

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

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

17) $35p^2 - 23p - 20 = -6 - 2p$

18) $27x^2 = -8x^2 - 5x + 30$

19) $3n^2 + 14n - 41 = 8$

20) $56m^2 - 175 = -245m$

21) $8 - 13b = -2b^2 + 4b$

22) $40x^2 + 104x = -64$

23) $-8 - 25r = -14r^2 - r$

24) $3n^2 - 6n - 13 = n + 7$

Answers to Assignment (ID: 1)

1) $\left\{\frac{7}{2}, -\frac{8}{7}\right\}$
2) $\left\{\frac{6}{5}, -8\right\}$
3) $\left\{-\frac{4}{3}, \frac{5}{3}\right\}$
4) $\left\{\frac{4}{3}, 6\right\}$
5) $\left\{-\frac{7}{5}, -8\right\}$
6) $\left\{\frac{1}{5}, 1\right\}$
7) $\left\{\frac{2}{3}, -\frac{2}{7}\right\}$
8) $\left\{\frac{1}{7}, 6\right\}$
9) $\left\{\frac{7}{4}, 1\right\}$
10) $\left\{-\frac{3}{2}, -3\right\}$
11) $\left\{\frac{8}{5}, 7\right\}$
12) $\left\{-\frac{1}{5}, -\frac{5}{2}\right\}$
13) $\left\{\frac{3}{2}, -5\right\}$
14) $\left\{-\frac{7}{3}, 2\right\}$
15) $\left\{\frac{7}{5}, -2\right\}$
16) $\left\{-\frac{4}{3}, 1\right\}$
17) $\left\{-\frac{2}{5}, 1\right\}$
18) $\left\{\frac{6}{7}, -1\right\}$
19) $\left\{\frac{7}{3}, -7\right\}$
20) $\left\{\frac{5}{8}, -5\right\}$
21) $\left\{\frac{1}{2}, 8\right\}$
22) $\left\{-\frac{8}{5}, -1\right\}$
23) $\left\{-\frac{2}{7}, 2\right\}$
24) $\left\{-\frac{5}{3}, 4\right\}$

Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $v^2 + 2v - 20 = -5v^2$

2) $5x^2 - 34x - 50 = -2$

3) $-41a = -5a^2 - 8$

4) $7x^2 + 34x = -24$

5) $5n^2 - 46n - 21 = -2n^2$

6) $8p^2 - 57p + 1 = -6$

7) $4x^2 + 11x - 10 = -3x^2 + 2x$

8) $3k^2 + 18k + 12 = -7k - 4k^2$

9) $14m^2 - 29m + 14 = 4m - 4$

10) $16 - 76n = -70n^2$

11) $28r^2 - 188r = -120$

12) $40x^2 - 295x - 259 = -7x - 3$

13) $24n^2 + 164n + 124 = 4$

14) $3v^2 + 20v = -32$

15) $4b^2 + 3b - 11 = 1 + 5b$

16) $42 + 25x = -3x^2$

17) $35n^2 = 38n - 8$

18) $-8k = -3k^2 - 5$

19) $8p^2 + 14 = -7 + 4p^2 - 20p$

20) $8a^2 - 20a - 56 = 5a^2 - 7a$

21) $5n^2 - 19n = 30$

22) $-m^2 + 14m + 8 = -6m^2$

23) $13x^2 - 34x + 24 = 8x^2$

24) $-17 - 24p = -7p^2 - 6p - 8$

Answers to Assignment (ID: 2)

1) $\left\{\frac{5}{3}, -2\right\}$
2) $\left\{-\frac{6}{5}, 8\right\}$
3) $\left\{\frac{1}{5}, 8\right\}$
4) $\left\{-\frac{6}{7}, -4\right\}$
5) $\left\{-\frac{3}{7}, 7\right\}$
6) $\left\{\frac{1}{8}, 7\right\}$
7) $\left\{\frac{5}{7}, -2\right\}$
8) $\left\{-\frac{4}{7}, -3\right\}$
9) $\left\{\frac{6}{7}, \frac{3}{2}\right\}$
10) $\left\{\frac{2}{7}, \frac{4}{5}\right\}$
11) $\left\{\frac{5}{7}, 6\right\}$
12) $\left\{-\frac{4}{5}, 8\right\}$
13) $\left\{-\frac{5}{6}, -6\right\}$
14) $\left\{-\frac{8}{3}, -4\right\}$
15) $\left\{-\frac{3}{2}, 2\right\}$
16) $\left\{-\frac{7}{3}, -6\right\}$
17) $\left\{\frac{4}{5}, \frac{2}{7}\right\}$
18) $\left\{\frac{5}{3}, 1\right\}$
19) $\left\{-\frac{7}{2}, -\frac{3}{2}\right\}$
20) $\left\{-\frac{8}{3}, 7\right\}$
21) $\left\{-\frac{6}{5}, 5\right\}$
22) $\left\{-\frac{4}{5}, -2\right\}$
23) $\left\{\frac{4}{5}, 6\right\}$
24) $\left\{-\frac{3}{7}, 3\right\}$

Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $18x^2 + 159x = -6x^2 + 63$

2) $5n^2 - 21n + 26 = 8$

3) $35b^2 - 37 = -1 - 12b$

4) $8r^2 - 36r + 32 = r^2$

5) $21v^2 - 174v + 41 = -7$

6) $35a^2 + 282a = 7a + 40$

7) $24x^2 - 21 = 165x$

8) $42n^2 + 18n - 24 = 6n + 6$

9) $-392 + 287x = -49x^2$

10) $35x^2 + 237x - 109 = -4 + 7x$

11) $9n^2 + n - 7 = 3 + 7n^2$

12) $14k^2 + 53k + 48 = 3k + 7k^2$

13) $15m^2 - 4m = 35$

14) $105 - 59x = -6x^2 - 2x$

15) $5p^2 + 26p - 11 = 7 - p$

16) $90n^2 - 228n + 150 = 6$

17) $9r^2 + 75 = -60r$

18) $3x^2 + 20x + 10 = -2$

19) $8b^2 + 39b - 4 = 1$

20) $10v^2 - 70v + 80 = -4v$

21) $8n^2 - 7n - 20 = 5n^2$

22) $7x^2 + 52x - 64 = 4x$

23) $5n^2 - 27n - 42 = -4n$

24) $2a^2 + 14a = -7 - a$

Answers to Assignment (ID: 3)

1) $\left\{\frac{3}{8}, -7\right\}$

2) $\left\{\frac{6}{5}, 3\right\}$

3) $\left\{\frac{6}{7}, -\frac{6}{5}\right\}$

4) $\left\{\frac{8}{7}, 4\right\}$

5) $\left\{\frac{2}{7}, 8\right\}$

6) $\left\{\frac{1}{7}, -8\right\}$

7) $\left\{-\frac{1}{8}, 7\right\}$

8) $\left\{\frac{5}{7}, -1\right\}$

9) $\left\{\frac{8}{7}, -7\right\}$

10) $\left\{\frac{3}{7}, -7\right\}$

11) $\left\{-\frac{5}{2}, 2\right\}$

12) $\left\{-\frac{8}{7}, -6\right\}$

13) $\left\{-\frac{7}{5}, \frac{5}{3}\right\}$

14) $\left\{\frac{5}{2}, 7\right\}$

15) $\left\{\frac{3}{5}, -6\right\}$

16) $\left\{\frac{4}{3}, \frac{6}{5}\right\}$

17) $\left\{-\frac{5}{3}, -5\right\}$

18) $\left\{-\frac{2}{3}, -6\right\}$

19) $\left\{\frac{1}{8}, -5\right\}$

20) $\left\{\frac{8}{5}, 5\right\}$

21) $\left\{-\frac{5}{3}, 4\right\}$

22) $\left\{\frac{8}{7}, -8\right\}$

23) $\left\{-\frac{7}{5}, 6\right\}$

24) $\left\{-\frac{1}{2}, -7\right\}$

Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $20k^2 + 56 = 148k$

2) $3x^2 - 11x - 6 = 6x$

3) $21p^2 - 54 = -117p$

4) $7n^2 + 40n + 22 = -3$

5) $20r^2 + 20r + 3 = -5r^2$

6) $28m^2 + 31 = -72m - 1$

7) $12x^2 + 59x + 30 = 6 + 5x^2$

8) $18n^2 - 15n - 22 = 3 + 8n^2$

9) $4b^2 + 18b - 105 = 7$

10) $241r^2 + 322r + 109 = -4r^2 + 4$

11) $75x^2 + 210 = -265x$

12) $5n^2 + 34n + 40 = 2n + 5$

13) $3v^2 + 6v = 1 + 4v$

14) $3a^2 - 17a = -20$

15) $42x^2 + 268x - 134 = -8 - 8x$

16) $17x^2 - 392 = -7x^2 + 112x$

17) $6k^2 + 2 = -3 + 31k$

18) $30 - 182n = -8n + 6 - 42n^2$

19) $-17 = -3p^2 - 1 - 8p$

20) $6x^2 + 28x + 4 = 3x$

21) $35m^2 - 210 = -215m$

22) $12n^2 - 8 = -5n + 6n^2 - 7$

23) $21r^2 - 49r + 11 = 1 - 8r$

24) $12x^2 - 7x = 4 + 7x^2 + x$

Answers to Assignment (ID: 4)

1) $\left\{\frac{2}{5}, 7\right\}$

2) $\left\{-\frac{1}{3}, 6\right\}$

3) $\left\{\frac{3}{7}, -6\right\}$

4) $\left\{-\frac{5}{7}, -5\right\}$

5) $\left\{-\frac{3}{5}, -\frac{1}{5}\right\}$

6) $\left\{-\frac{4}{7}, -2\right\}$

7) $\left\{-\frac{3}{7}, -8\right\}$

8) $\left\{\frac{5}{2}, -1\right\}$

9) $\left\{\frac{7}{2}, -8\right\}$

10) $\left\{-\frac{3}{5}, -\frac{5}{7}\right\}$

11) $\left\{-\frac{7}{3}, -\frac{6}{5}\right\}$

12) $\left\{-\frac{7}{5}, -5\right\}$

13) $\left\{\frac{1}{3}, -1\right\}$

14) $\left\{\frac{5}{3}, 4\right\}$

15) $\left\{\frac{3}{7}, -7\right\}$

16) $\left\{-\frac{7}{3}, 7\right\}$

17) $\left\{\frac{1}{6}, 5\right\}$

18) $\left\{\frac{1}{7}, 4\right\}$

19) $\left\{\frac{4}{3}, -4\right\}$

20) $\left\{-\frac{1}{6}, -4\right\}$

21) $\left\{\frac{6}{7}, -7\right\}$

22) $\left\{\frac{1}{6}, -1\right\}$

23) $\left\{\frac{5}{3}, \frac{2}{7}\right\}$

24) $\left\{-\frac{2}{5}, 2\right\}$

Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $40n^2 - 245n + 240 = 3n$

2) $25v^2 - 28 = 15v$

3) $7b^2 + 6 = -43b$

4) $320 = -344x - 56x^2$

5) $49n^2 + 90n + 41 = -7 + 7n^2$

6) $30k^2 + 53k - 16 = 5k + 2k^2$

7) $2a^2 + a + 3 = -6a$

8) $-59 - 112p = 5 - 392p^2$

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

10) $42n^2 + 48n + 18 = -3n + 7n^2$

11) $3r^2 - 19r = r^2 - 24$

12) $28m^2 - 51m - 50 = -2m^2 + 4m$

13) $3x^2 - 5x = 5 - 7x$

14) $3r^2 + 7 = -22r$

15) $-2n^2 + 19n + 19 = -7n^2 + 7$

16) $42b^2 - 78b + 12 = 6b^2$

17) $20n^2 + 146n = -4n^2 + 147 - n$

18) $141 - 100x = 2x - 18x^2 - 3$

19) $5a^2 + 24a - 24 = -2a$

20) $-41v = -8 - 5v^2$

21) $3x^2 + 47x + 58 = -2x^2 + 2$

22) $35x^2 + 3x - 17 = 3$

23) $8n^2 - 25n - 12 = n^2$

24) $17k^2 - 24 = -3k^2 - 4k$

Answers to Assignment (ID: 5)

1) $\left\{\frac{6}{5}, 5\right\}$
2) $\left\{\frac{7}{5}, -\frac{4}{5}\right\}$
3) $\left\{-\frac{1}{7}, -6\right\}$
4) $\left\{-\frac{8}{7}, -5\right\}$
5) $\left\{-\frac{8}{7}, -1\right\}$
6) $\left\{\frac{2}{7}, -2\right\}$
7) $\left\{-\frac{1}{2}, -3\right\}$
8) $\left\{\frac{4}{7}, -\frac{2}{7}\right\}$
9) $\left\{\frac{3}{2}, 1\right\}$
10) $\left\{-\frac{3}{5}, -\frac{6}{7}\right\}$
11) $\left\{\frac{3}{2}, 8\right\}$
12) $\left\{-\frac{2}{3}, \frac{5}{2}\right\}$
13) $\left\{-\frac{5}{3}, 1\right\}$
14) $\left\{-\frac{1}{3}, -7\right\}$
15) $\left\{-\frac{4}{5}, -3\right\}$
16) $\left\{\frac{1}{6}, 2\right\}$
17) $\left\{\frac{7}{8}, -7\right\}$
18) $\left\{\frac{8}{3}, 3\right\}$
19) $\left\{\frac{4}{5}, -6\right\}$
20) $\left\{\frac{1}{5}, 8\right\}$
21) $\left\{-\frac{7}{5}, -8\right\}$
22) $\left\{-\frac{4}{5}, \frac{5}{7}\right\}$
23) $\left\{-\frac{3}{7}, 4\right\}$
24) $\left\{-\frac{6}{5}, 1\right\}$

Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $31p^2 + 20p = -3 - 2p - 4p^2$

2) $7x^2 - 25x = -7x - 8$

3) $17 - 46n = -7 - 7n^2$

4) $35m^2 - 186m + 75 = 4m$

5) $-126 - 276r = -42r^2$

6) $392x^2 + 221x - 40 = -3x$

7) $-2n^2 - 24n = 15 - 2n - 7n^2$

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

9) $5v^2 + 17v = -6$

10) $11x^2 + 33x = -x^2 - 18$

11) $2a^2 - 5a - 31 = -2a + 4$

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

13) $49k^2 + 46k - 10 = -3k - 2$

14) $3p^2 - 28p + 13 = 1 - 8p$

15) $2n^2 - 6n = -4 + 3n$

16) $22x^2 + 136x - 454 = -2x^2 - 6$

17) $18r^2 + 46r + 7 = 4r^2 - 5r$

18) $3m^2 + 24m + 33 = m + 3$

19) $10n^2 - 21n - 146 = 1 + 4n^2$

20) $14x^2 - 33x - 36 = -x^2$

21) $7b^2 + 33b + 22 = 2$

22) $42n^2 + 33n - 16 = -n$

23) $-24x = -10x^2 + 7x - 15$

24) $-2v^2 + 52 = -7v^2 + 47v - 4$

Answers to Assignment (ID: 6)

1) $\left\{-\frac{3}{7}, -\frac{1}{5}\right\}$
2) $\left\{\frac{4}{7}, 2\right\}$
3) $\left\{\frac{4}{7}, 6\right\}$
4) $\left\{\frac{3}{7}, 5\right\}$
5) $\left\{-\frac{3}{7}, 7\right\}$
6) $\left\{-\frac{5}{7}, \frac{1}{7}\right\}$
7) $\left\{-\frac{3}{5}, 5\right\}$
8) $\left\{-\frac{1}{4}, 2\right\}$
9) $\left\{-\frac{2}{5}, -3\right\}$
10) $\left\{-\frac{3}{4}, -2\right\}$
11) $\left\{-\frac{7}{2}, 5\right\}$
12) $\left\{\frac{1}{2}, -1\right\}$
13) $\left\{-\frac{8}{7}, \frac{1}{7}\right\}$
14) $\left\{\frac{2}{3}, 6\right\}$
15) $\left\{\frac{1}{2}, 4\right\}$
16) $\left\{\frac{7}{3}, -8\right\}$
17) $\left\{-\frac{1}{7}, -\frac{7}{2}\right\}$
18) $\left\{-\frac{5}{3}, -6\right\}$
19) $\left\{-\frac{7}{2}, 7\right\}$
20) $\left\{-\frac{4}{5}, 3\right\}$
21) $\left\{-\frac{5}{7}, -4\right\}$
22) $\left\{-\frac{8}{7}, \frac{1}{3}\right\}$
23) $\left\{\frac{5}{2}, \frac{3}{5}\right\}$
24) $\left\{\frac{7}{5}, 8\right\}$

Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $x^2 + 18x - 6 = -6x^2 + 5x - 4$

2) $4v^2 - 30v - 9 = -5v - 3v^2 + 3$

3) $10 + 7a = -4a - 3a^2$

4) $49x^2 + 337x + 254 = x + 2$

5) $12n^2 - 50n = 5n^2 - 48$

6) $62k^2 - 229 = -5 + 76k + 2k^2$

7) $25p^2 - 138p = 3p + p^2 - 105$

8) $16x^2 + 49x - 120 = -7x$

9) $49x^2 + 28 = -77x$

10) $-40 + 49r = 8r - 21r^2$

11) $12m^2 + 30m - 155 = -5$

12) $8n = -12n^2 + 64$

13) $5n^2 - 3n = 6 - 4n^2$

14) $95 - 91v = -3 - 21v^2$

15) $7x^2 + 52x + 34 = -8x^2 + 2$

16) $-1 - b = -4b^2 + 4$

17) $3n^2 + 30n + 54 = n - 2$

18) $5p^2 + 3p = 2$

19) $6a^2 - 27a - 56 = a^2$

20) $6k^2 + 17k - 16 = -3k$

21) $75x^2 - 150 = -35x$

22) $7n^2 + 26n - 21 = -6n + 2n^2$

23) $10r^2 + 31r + 20 = -4$

24) $3m^2 + 7m - 24 = -7m$

Answers to Assignment (ID: 7)

1) $\left\{\frac{1}{7}, -2\right\}$
2) $\left\{-\frac{3}{7}, 4\right\}$
3) $\left\{-\frac{5}{3}, -2\right\}$
4) $\left\{-\frac{6}{7}, -6\right\}$
5) $\left\{\frac{8}{7}, 6\right\}$
6) $\left\{-\frac{7}{5}, \frac{8}{3}\right\}$
7) $\left\{\frac{7}{8}, 5\right\}$
8) $\left\{\frac{3}{2}, -5\right\}$
9) $\left\{-\frac{4}{7}, -1\right\}$
10) $\left\{\frac{5}{7}, -\frac{8}{3}\right\}$
11) $\left\{\frac{5}{2}, -5\right\}$
12) $\left\{-\frac{8}{3}, 2\right\}$
13) $\left\{-\frac{2}{3}, 1\right\}$
14) $\left\{\frac{7}{3}, 2\right\}$
15) $\left\{-\frac{4}{5}, -\frac{8}{3}\right\}$
16) $\left\{\frac{5}{4}, -1\right\}$
17) $\left\{-\frac{8}{3}, -7\right\}$
18) $\left\{\frac{2}{5}, -1\right\}$
19) $\left\{-\frac{8}{5}, 7\right\}$
20) $\left\{\frac{2}{3}, -4\right\}$
21) $\left\{-\frac{5}{3}, \frac{6}{5}\right\}$
22) $\left\{\frac{3}{5}, -7\right\}$
23) $\left\{-\frac{8}{5}, -\frac{3}{2}\right\}$
24) $\left\{\frac{4}{3}, -6\right\}$

Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $3x^2 - 31x - 27 = -4x^2 - 7$

2) $47b^2 + 111b - 105 = -b - 2b^2$

3) $-105 - 10n = -12n^2 + 7$

4) $-32 = -4 - 3v^2 + 5v$

5) $10x^2 - 13x - 66 = 2x + 4$

6) $10a^2 + 10 = -31a - 5a^2$

7) $2v^2 - 15v + 15 = -2v$

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

9) $9n^2 + 6n = 2n^2 + 16$

10) $-18 - 36x = -14x^2$

11) $15k^2 + 32 = -42k + 8$

12) $12x^2 - 90x = -42$

13) $10n^2 - 9n + 4 = -2n + 7n^2$

14) $14x^2 + 4 = -11x + 8x^2$

15) $12m^2 + 30m - 72 = -6m^2$

16) $5p^2 + 18p - 1 = 7$

17) $12x^2 - 81x = -3x^2 + 54$

18) $5b^2 - 27b - 19 = 6b - 5$

19) $125n^2 + 125n = 30$

20) $5r^2 - 2r - 7 = -5r - 5$

21) $20x^2 + 153x + 35 = 8x$

22) $35x^2 + 141x - 200 = 6x$

23) $252 + 251v = 5v - 30v^2$

24) $7 = -40a - 25a^2$

Answers to Assignment (ID: 8)

1) $\left\{-\frac{4}{7}, 5\right\}$

2) $\left\{\frac{5}{7}, -3\right\}$

3) $\left\{-\frac{8}{3}, \frac{7}{2}\right\}$

4) $\left\{-\frac{7}{3}, 4\right\}$

5) $\left\{\frac{7}{2}, -2\right\}$

6) $\left\{-\frac{2}{5}, -\frac{5}{3}\right\}$

7) $\left\{\frac{3}{2}, 5\right\}$

8) $\left\{-\frac{3}{2}, 2\right\}$

9) $\left\{\frac{8}{7}, -2\right\}$

10) $\left\{-\frac{3}{7}, 3\right\}$

11) $\left\{-\frac{4}{5}, -2\right\}$

12) $\left\{\frac{1}{2}, 7\right\}$

13) $\left\{\frac{4}{3}, 1\right\}$

14) $\left\{-\frac{4}{3}, -\frac{1}{2}\right\}$

15) $\left\{\frac{4}{3}, -3\right\}$

16) $\left\{\frac{2}{5}, -4\right\}$

17) $\left\{-\frac{3}{5}, 6\right\}$

18) $\left\{-\frac{2}{5}, 7\right\}$

19) $\left\{-\frac{6}{5}, \frac{1}{5}\right\}$

20) $\left\{\frac{2}{5}, -1\right\}$

21) $\left\{-\frac{1}{4}, -7\right\}$

22) $\left\{\frac{8}{7}, -5\right\}$

23) $\left\{-\frac{6}{5}, -7\right\}$

24) $\left\{-\frac{7}{5}, -\frac{1}{5}\right\}$

Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $-3p^2 - 16p - 5 = -8p^2 - 8$

2) $-k^2 + 4 = 29k - 8k^2$

3) $-n^2 + 49n = 24 - 4n - 8n^2$

4) $6x^2 - 45x = -x^2 - 8x - 10$

5) $2r^2 = -35 - 19r$

6) $22m^2 + 17m - 30 = m^2$

7) $21x^2 + 32x + 16 = -6x$

8) $15n^2 - 24n - 7 = -8n$

9) $210 - 161b = -21b^2$

10) $15 - 38v = -7v^2$

11) $5n^2 + 33n + 46 = 6$

12) $2x^2 - 40x - 19 = -7 - 6x - 4x^2$

13) $6a^2 - 45a - 16 = a$

14) $18k^2 + 69 = 138k - 3 - 3k^2$

15) $25x^2 + 140x + 166 = 6$

16) $21x^2 + 96x = -112 - 2x$

17) $28 - 229n = 2n - 245n^2$

18) $5x^2 - 33x + 25 = 7$

19) $8k^2 + 44k + 42 = -2k^2$

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

21) $12n^2 + 87n - 67 = 5$

22) $32m^2 + 231m + 126 = -3m^2$

23) $23x^2 + 164x - 216 = 8 - 5x^2$

24) $-r^2 + 36r - 30 = -r - 8r^2$

Answers to Assignment (ID: 9)

1) $\left\{\frac{1}{5}, 3\right\}$

2) $\left\{\frac{1}{7}, 4\right\}$

3) $\left\{\frac{3}{7}, -8\right\}$

4) $\left\{\frac{2}{7}, 5\right\}$

5) $\left\{-\frac{5}{2}, -7\right\}$

6) $\left\{\frac{6}{7}, -\frac{5}{3}\right\}$

7) $\left\{-\frac{2}{3}, -\frac{8}{7}\right\}$

8) $\left\{\frac{7}{5}, -\frac{1}{3}\right\}$

9) $\left\{\frac{5}{3}, 6\right\}$

10) $\left\{\frac{3}{7}, 5\right\}$

11) $\left\{-\frac{8}{5}, -5\right\}$

12) $\left\{-\frac{1}{3}, 6\right\}$

13) $\left\{-\frac{1}{3}, 8\right\}$

14) $\left\{\frac{4}{7}, 6\right\}$

15) $\left\{-\frac{8}{5}, -4\right\}$

16) $\left\{-\frac{8}{3}, -2\right\}$

17) $\left\{\frac{1}{7}, \frac{4}{5}\right\}$

18) $\left\{\frac{3}{5}, 6\right\}$

19) $\left\{-\frac{7}{5}, -3\right\}$

20) $\left\{-\frac{8}{5}, 1\right\}$

21) $\left\{\frac{3}{4}, -8\right\}$

22) $\left\{-\frac{3}{5}, -6\right\}$

23) $\left\{\frac{8}{7}, -7\right\}$

24) $\left\{\frac{5}{7}, -6\right\}$

Name_____

Assignment

Date_____ Period____

Solve each equation by factoring.

1) $7b^2 + 51b + 11 = -3$

2) $7n^2 + 9n + 1 = -1$

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

4) $7v^2 + 27v - 24 = 5v$

5) $3x^2 = -7 + 22x$

6) $14 - 60a = -4 - 42a^2$

7) $15k^2 - 57k + 60 = 8k$

8) $30p^2 - 264p + 195 = 3$

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

10) $14n^2 - 19n - 30 = 4n$

11) $47r^2 - 20 = 7r - 2r^2$

12) $17m^2 - 1 = 3m^2 + 4 + 3m$

13) $2x^2 + 25x + 4 = -7x^2 + x - 3$

14) $14n^2 - 56n - 115 = -3 - 7n^2$

15) $245b^2 - 623b = -392$

16) $x^2 + 13x - 19 = -4x - 7 - 6x^2$

17) $30v^2 + 30v - 8 = 5v^2 - 1$

18) $5n^2 + 11n - 21 = 3n$

19) $41a^2 + 296a + 108 = a^2 - 4$

20) $-20 + 4k = -5 - 4k^2 + 8k$

21) $-2x^2 + 38x - 20 = -7x^2 - 4$

22) $18 + 29x = -4x - 5x^2$

23) $7n^2 - 20n = 24 - 7n$

24) $21k^2 - 58k = -21$

Answers to Assignment (ID: 10)

1) $\left\{-\frac{2}{7}, -7\right\}$

2) $\left\{-\frac{2}{7}, -1\right\}$

3) $\left\{\frac{7}{2}, 1\right\}$

4) $\left\{\frac{6}{7}, -4\right\}$

5) $\left\{\frac{1}{3}, 7\right\}$

6) $\left\{\frac{3}{7}, 1\right\}$

7) $\left\{\frac{4}{3}, 3\right\}$

8) $\left\{\frac{4}{5}, 8\right\}$

9) $\left\{\frac{1}{2}, -2\right\}$

10) $\left\{-\frac{6}{7}, \frac{5}{2}\right\}$

11) $\left\{\frac{5}{7}, -\frac{4}{7}\right\}$

12) $\left\{\frac{5}{7}, -\frac{1}{2}\right\}$

13) $\left\{-\frac{1}{3}, -\frac{7}{3}\right\}$

14) $\left\{-\frac{4}{3}, 4\right\}$

15) $\left\{\frac{8}{7}, \frac{7}{5}\right\}$

16) $\left\{\frac{4}{7}, -3\right\}$

17) $\left\{\frac{1}{5}, -\frac{7}{5}\right\}$

18) $\left\{\frac{7}{5}, -3\right\}$

19) $\left\{-\frac{2}{5}, -7\right\}$

20) $\left\{-\frac{3}{2}, \frac{5}{2}\right\}$

21) $\left\{\frac{2}{5}, -8\right\}$

22) $\left\{-\frac{3}{5}, -6\right\}$

23) $\left\{-\frac{8}{7}, 3\right\}$

24) $\left\{\frac{7}{3}, \frac{3}{7}\right\}$