

**Assignment****Solve each system by elimination.**

1) 
$$\begin{aligned} 10x + 9y &= 0 \\ 8x + 18y &= 0 \end{aligned}$$

2) 
$$\begin{aligned} -7x + 14y &= 0 \\ -6x - 7y &= 0 \end{aligned}$$

3) 
$$\begin{aligned} 2x - 9y &= -12 \\ 3x + 18y &= -18 \end{aligned}$$

4) 
$$\begin{aligned} 20x + 7y &= -29 \\ -10x - 5y &= 25 \end{aligned}$$

5) 
$$\begin{aligned} 16x - 12y &= 8 \\ -4x + 3y &= -2 \end{aligned}$$

6) 
$$\begin{aligned} -16x + 20y &= -4 \\ -8x + 10y &= -4 \end{aligned}$$

7) 
$$\begin{aligned} -2x + 2y &= 0 \\ 6x - 6y &= 0 \end{aligned}$$

8) 
$$\begin{aligned} -14x + 6y &= 24 \\ -7x + 3y &= 12 \end{aligned}$$

9) 
$$\begin{aligned} -9x + 3y &= 12 \\ -3x + y &= 4 \end{aligned}$$

10) 
$$\begin{aligned} 6x + 10y &= -10 \\ -3x - 6y &= 0 \end{aligned}$$

11) 
$$\begin{aligned} 5x + 3y &= -4 \\ -9x - 12y &= 27 \end{aligned}$$

12) 
$$\begin{aligned} 6x + y &= -20 \\ -10x + 6y &= 18 \end{aligned}$$

13) 
$$\begin{aligned} -12x + 6y &= -30 \\ -3x + 5y &= 24 \end{aligned}$$

14) 
$$\begin{aligned} -5x + 3y &= -10 \\ -6x + 12y &= 30 \end{aligned}$$

15) 
$$\begin{aligned} -10x - 3y &= -3 \\ -6x - y &= -1 \end{aligned}$$

16) 
$$\begin{aligned} -3x - 2y &= 17 \\ -4x + y &= 19 \end{aligned}$$

17) 
$$\begin{aligned} 9x - 3y &= 27 \\ -x + 6y &= 14 \end{aligned}$$

18) 
$$\begin{aligned} 2x - 8y &= 10 \\ -7x - 2y &= -5 \end{aligned}$$

19) 
$$\begin{aligned} -5x - 6y &= 12 \\ -3x + 3y &= -6 \end{aligned}$$

20) 
$$\begin{aligned} x + 8y &= -1 \\ 6x - 16y &= -6 \end{aligned}$$

21) 
$$\begin{aligned} -4x - 20y &= 28 \\ -x - 10y &= 12 \end{aligned}$$

22) 
$$\begin{aligned} -2x + 9y &= -16 \\ 12x - 3y &= -6 \end{aligned}$$

23) 
$$\begin{aligned} 5x - 3y &= 13 \\ 2x + 9y &= -5 \end{aligned}$$

24) 
$$\begin{aligned} 2x + 4y &= -4 \\ -10x - 8y &= -16 \end{aligned}$$



## Answers to Assignment (ID: 1)

- |                                 |                                 |                                 |                |
|---------------------------------|---------------------------------|---------------------------------|----------------|
| 1) $(0, 0)$                     | 2) $(0, 0)$                     | 3) $(-6, 0)$                    | 4) $(1, -7)$   |
| 5) Infinite number of solutions | 6) No solution                  | 7) Infinite number of solutions |                |
| 8) Infinite number of solutions | 9) Infinite number of solutions | 10) $(-10, 5)$                  |                |
| 11) $(1, -3)$                   | 12) $(-3, -2)$                  | 13) $(7, 9)$                    | 14) $(5, 5)$   |
| 15) $(0, 1)$                    | 16) $(-5, -1)$                  | 17) $(4, 3)$                    | 18) $(1, -1)$  |
| 19) $(0, -2)$                   | 20) $(-1, 0)$                   | 21) $(-2, -1)$                  | 22) $(-1, -2)$ |
| 23) $(2, -1)$                   | 24) $(4, -3)$                   |                                 |                |



**Assignment****Solve each system by elimination.**

1)  $4x + 20y = -24$   
 $5x + 10y = 15$

2)  $20x + 9y = 13$   
 $-10x + 3y = -29$

3)  $-3x + 10y = 2$   
 $-5x + 5y = -20$

4)  $x + 4y = -6$   
 $5x - 8y = 26$

5)  $20x - 7y = -6$   
 $-10x + 3y = 4$

6)  $3x - 4y = -11$   
 $-6x + 9y = 21$

7)  $-7x + 8y = -17$   
 $-9x + 2y = 3$

8)  $-18x + 5y = 3$   
 $9x - 8y = 15$

9)  $-2x + 9y = 24$   
 $-8x - 10y = 4$

10)  $8x - 10y = -10$   
 $5x + 5y = 5$

11)  $5x + 12y = -24$   
 $-6x - 4y = 8$

12)  $-2x - 5y = -9$   
 $-6x - 15y = -21$

13)  $-15x + 5y = -30$   
 $-3x + y = -6$

14)  $-3x + 18y = 15$   
 $-x + 6y = 6$

15)  $-16x - 16y = 0$   
 $8x + 8y = 0$

16)  $-x + 8y = -26$   
 $-10x - 7y = 1$

17)  $-3x - 14y = 27$   
 $4x + 7y = -1$

18)  $7x - y = 8$   
 $-8x - 7y = -1$

19)  $7x + 3y = 8$   
 $5x + y = 0$

20)  $-15x - 3y = 21$   
 $5x + 4y = 17$

21)  $4x + 9y = -15$   
 $-3x + 3y = -18$

22)  $-4x + 2y = 8$   
 $12x - 7y = -30$

23)  $-5x + 5y = -20$   
 $-3x + 15y = 12$

24)  $-2x + 7y = -21$   
 $-x - y = 12$



## Answers to Assignment (ID: 2)

- |                                  |                 |                                  |                 |
|----------------------------------|-----------------|----------------------------------|-----------------|
| 1) $(9, -3)$                     | 2) $(2, -3)$    | 3) $(6, 2)$                      | 4) $(2, -2)$    |
| 5) $(-1, -2)$                    | 6) $(-5, -1)$   | 7) $(-1, -3)$                    | 8) $(-1, -3)$   |
| 9) $(-3, 2)$                     | 10) $(0, 1)$    | 11) $(0, -2)$                    | 12) No solution |
| 13) Infinite number of solutions | 14) No solution | 15) Infinite number of solutions |                 |
| 16) $(2, -3)$                    | 17) $(5, -3)$   | 18) $(1, -1)$                    | 19) $(-1, 5)$   |
| 20) $(-3, 8)$                    | 21) $(3, -3)$   | 22) $(1, 6)$                     | 23) $(6, 2)$    |
| 24) $(-7, -5)$                   |                 |                                  |                 |



**Assignment****Solve each system by elimination.**

1) 
$$\begin{aligned} -x - 9y &= 2 \\ -9x - 8y &= 18 \end{aligned}$$

2) 
$$\begin{aligned} 6x - y &= 1 \\ -8x + 11y &= -11 \end{aligned}$$

3) 
$$\begin{aligned} 6x + 5y &= -25 \\ 12x + 6y &= -30 \end{aligned}$$

4) 
$$\begin{aligned} 7x - 6y &= -25 \\ -4x + 12y &= -20 \end{aligned}$$

5) 
$$\begin{aligned} 7x + y &= 16 \\ 10x - 5y &= 10 \end{aligned}$$

6) 
$$\begin{aligned} 9x + 14y &= -18 \\ x + 7y &= -2 \end{aligned}$$

7) 
$$\begin{aligned} 2x + 4y &= 30 \\ 7x - 12y &= 1 \end{aligned}$$

8) 
$$\begin{aligned} -8x - y &= 5 \\ 9x - 2y &= -15 \end{aligned}$$

9) 
$$\begin{aligned} -6x + 2y &= -16 \\ -2x - 6y &= -12 \end{aligned}$$

10) 
$$\begin{aligned} 9x + 6y &= 30 \\ 8x + 12y &= 20 \end{aligned}$$

11) 
$$\begin{aligned} -4x + 10y &= 20 \\ x - 20y &= 30 \end{aligned}$$

12) 
$$\begin{aligned} -3x - 7y &= 9 \\ 12x + 9y &= 21 \end{aligned}$$

13) 
$$\begin{aligned} -2x - 5y &= -8 \\ -4x + y &= 28 \end{aligned}$$

14) 
$$\begin{aligned} 8x - 8y &= 8 \\ -2x + 4y &= 6 \end{aligned}$$

15) 
$$\begin{aligned} 5x - 6y &= 14 \\ -2x + 3y &= -8 \end{aligned}$$

16) 
$$\begin{aligned} -14x - 10y &= -10 \\ -7x + 6y &= 6 \end{aligned}$$

17) 
$$\begin{aligned} -x - 6y &= -15 \\ -2x + 2y &= 26 \end{aligned}$$

18) 
$$\begin{aligned} -x + 18y &= -3 \\ 5x - 9y &= 15 \end{aligned}$$

19) 
$$\begin{aligned} -14x - 8y &= -24 \\ -7x - 4y &= -12 \end{aligned}$$

20) 
$$\begin{aligned} -8x + 20y &= 28 \\ 4x - 10y &= -14 \end{aligned}$$

21) 
$$\begin{aligned} 18x - 20y &= 4 \\ 9x - 10y &= 2 \end{aligned}$$

22) 
$$\begin{aligned} 16x + 18y &= -8 \\ -8x - 9y &= 4 \end{aligned}$$

23) 
$$\begin{aligned} -20x + 10y &= -20 \\ -10x - 3y &= -10 \end{aligned}$$

24) 
$$\begin{aligned} -8x - 9y &= 27 \\ 10x + 18y &= 0 \end{aligned}$$



## Answers to Assignment (ID: 3)

- |                                  |                                  |                                  |               |
|----------------------------------|----------------------------------|----------------------------------|---------------|
| 1) $(-2, 0)$                     | 2) $(0, -1)$                     | 3) $(0, -5)$                     | 4) $(-7, -4)$ |
| 5) $(2, 2)$                      | 6) $(-2, 0)$                     | 7) $(7, 4)$                      | 8) $(-1, 3)$  |
| 9) $(3, 1)$                      | 10) $(4, -1)$                    | 11) $(-10, -2)$                  | 12) $(4, -3)$ |
| 13) $(-6, 4)$                    | 14) $(5, 4)$                     | 15) $(-2, -4)$                   | 16) $(0, 1)$  |
| 17) $(-9, 4)$                    | 18) $(3, 0)$                     | 19) Infinite number of solutions |               |
| 20) Infinite number of solutions | 21) Infinite number of solutions | 22) Infinite number of solutions |               |
| 23) $(1, 0)$                     | 24) $(-9, 5)$                    |                                  |               |



**Assignment**

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

**Solve each system by elimination.**

1)  $x - 8y = 3$   
 $3x + 2y = 9$

2)  $-5x - y = 3$   
 $10x + 3y = -4$

3)  $2x + y = 12$   
 $-4x + 3y = 16$

4)  $-6x + 7y = 7$   
 $-12x - 9y = -9$

5)  $2x - y = -2$   
 $-6x + 2y = -4$

6)  $-2x + 2y = -14$   
 $7x + 10y = 15$

7)  $2x - 7y = -27$   
 $-10x - y = 27$

8)  $2x - y = -7$   
 $-6x + 2y = 30$

9)  $-6x + 5y = -19$   
 $2x - 15y = -7$

10)  $-6x - 8y = 30$   
 $x - y = -5$

11)  $-4x + 4y = 8$   
 $8x - 5y = -28$

12)  $3x + 6y = -12$   
 $-7x - 3y = -5$

13)  $4x + 8y = -20$   
 $8x + 4y = -28$

14)  $10x - 9y = 30$   
 $-7x - 18y = -21$

15)  $-4x - 12y = 12$   
 $x - 3y = -3$

16)  $8x - 12y = 0$   
 $-x + 4y = 15$

17)  $10x + 7y = 10$   
 $x + 9y = 1$

18)  $-9x - 3y = 3$   
 $-18x + 6y = 30$

19)  $6x + 7y = 10$   
 $-8x - 14y = -4$

20)  $8x + 15y = -29$   
 $-6x + 5y = -27$

21)  $-2x + 6y = 26$   
 $12x - 7y = -11$

22)  $-6x + 2y = 22$   
 $3x - 8y = -4$

23)  $-8x + 4y = 12$   
 $-6x + 8y = -6$

24)  $6x + 2y = 20$   
 $2x + 4y = -20$



## Answers to Assignment (ID: 4)

- |              |              |              |             |
|--------------|--------------|--------------|-------------|
| 1) (3, 0)    | 2) (-1, 2)   | 3) (2, 8)    | 4) (0, 1)   |
| 5) (4, 10)   | 6) (5, -2)   | 7) (-3, 3)   | 8) (-8, -9) |
| 9) (4, 1)    | 10) (-5, 0)  | 11) (-6, -4) | 12) (2, -3) |
| 13) (-3, -1) | 14) (3, 0)   | 15) (-3, 0)  | 16) (9, 6)  |
| 17) (1, 0)   | 18) (-1, 2)  | 19) (4, -2)  | 20) (2, -3) |
| 21) (2, 5)   | 22) (-4, -1) | 23) (-3, -3) | 24) (6, -8) |



**Assignment****Solve each system by elimination.**

1) 
$$\begin{aligned} -9x - 4y &= 7 \\ -18x - 8y &= 14 \end{aligned}$$

2) 
$$\begin{aligned} -14x + 6y &= 2 \\ 7x - 3y &= -1 \end{aligned}$$

3) 
$$\begin{aligned} 3x - 3y &= 0 \\ -9x + 9y &= 9 \end{aligned}$$

4) 
$$\begin{aligned} -10x - 10y &= -20 \\ 2x + 2y &= 2 \end{aligned}$$

5) 
$$\begin{aligned} -2x - 16y &= -30 \\ 5x - 8y &= 27 \end{aligned}$$

6) 
$$\begin{aligned} 12x + 2y &= 10 \\ 2x + y &= 5 \end{aligned}$$

7) 
$$\begin{aligned} 18x - y &= 15 \\ 9x - 2y &= 3 \end{aligned}$$

8) 
$$\begin{aligned} -9x + 11y &= -13 \\ 6x - y &= -4 \end{aligned}$$

9) 
$$\begin{aligned} 9x - 6y &= -6 \\ 6x + 12y &= 12 \end{aligned}$$

10) 
$$\begin{aligned} -2x - 10y &= -24 \\ 8x + 2y &= -18 \end{aligned}$$

11) 
$$\begin{aligned} -8x - 6y &= -14 \\ 4x + 4y &= 0 \end{aligned}$$

12) 
$$\begin{aligned} -5x + 3y &= 6 \\ 10x - 5y &= -20 \end{aligned}$$

13) 
$$\begin{aligned} -4x + 8y &= -16 \\ -x - 16y &= -22 \end{aligned}$$

14) 
$$\begin{aligned} -6x + 7y &= 0 \\ 12x + 5y &= 0 \end{aligned}$$

15) 
$$\begin{aligned} 5x - 10y &= 0 \\ -10x + 4y &= -16 \end{aligned}$$

16) 
$$\begin{aligned} -9x - y &= 1 \\ 10x + 2y &= 6 \end{aligned}$$

17) 
$$\begin{aligned} -4x + 2y &= 22 \\ -8x + 6y &= 30 \end{aligned}$$

18) 
$$\begin{aligned} -10x + 18y &= 8 \\ -7x + 9y &= 2 \end{aligned}$$

19) 
$$\begin{aligned} -20x + 4y &= -8 \\ 10x - 7y &= 14 \end{aligned}$$

20) 
$$\begin{aligned} 3x + 18y &= 15 \\ -4x - 9y &= -5 \end{aligned}$$

21) 
$$\begin{aligned} -5x + y &= 2 \\ 6x - 3y &= 12 \end{aligned}$$

22) 
$$\begin{aligned} -6x + 4y &= -30 \\ 3x - 7y &= 0 \end{aligned}$$

23) 
$$\begin{aligned} 9x + 8y &= -27 \\ -10x - 16y &= 30 \end{aligned}$$

24) 
$$\begin{aligned} 20x + 7y &= -19 \\ -10x + y &= 23 \end{aligned}$$



## Answers to Assignment (ID: 5)

1) Infinite number of solutions

4) No solution

8)  $(-1, -2)$

12)  $(-6, -8)$

16)  $(-1, 8)$

20)  $(-1, 1)$

24)  $(-2, 3)$

2) Infinite number of solutions

5)  $(7, 1)$

9)  $(0, 1)$

13)  $(6, 1)$

17)  $(-9, -7)$

21)  $(-2, -8)$

6)  $(0, 5)$

10)  $(-3, 3)$

14)  $(0, 0)$

18)  $(1, 1)$

22)  $(7, 3)$

3) No solution

7)  $(1, 3)$

11)  $(7, -7)$

15)  $(2, 1)$

19)  $(0, -2)$

23)  $(-3, 0)$



**Assignment****Solve each system by elimination.**

1) 
$$\begin{aligned} 4x + 2y &= 2 \\ -8x - y &= -13 \end{aligned}$$

2) 
$$\begin{aligned} 8x - 4y &= -12 \\ x - 10y &= -30 \end{aligned}$$

3) 
$$\begin{aligned} -10x + 6y &= 4 \\ -5x + 5y &= 0 \end{aligned}$$

4) 
$$\begin{aligned} -6x + 4y &= -2 \\ -12x + 6y &= 12 \end{aligned}$$

5) 
$$\begin{aligned} 9x + 14y &= 16 \\ 7x + 7y &= 28 \end{aligned}$$

6) 
$$\begin{aligned} 9x - 4y &= 10 \\ 18x - 3y &= -15 \end{aligned}$$

7) 
$$\begin{aligned} 6x + 7y &= 0 \\ -2x + 14y &= 0 \end{aligned}$$

8) 
$$\begin{aligned} 9x + 2y &= -13 \\ 18x + 4y &= -26 \end{aligned}$$

9) 
$$\begin{aligned} 3x - 3y &= 12 \\ -6x + 6y &= -18 \end{aligned}$$

10) 
$$\begin{aligned} 10x + 10y &= 0 \\ 20x + 20y &= -20 \end{aligned}$$

11) 
$$\begin{aligned} 6x - 10y &= 12 \\ 12x - 20y &= 12 \end{aligned}$$

12) 
$$\begin{aligned} 10x + y &= 20 \\ -3x + 3y &= 27 \end{aligned}$$

13) 
$$\begin{aligned} 10x - 2y &= -28 \\ -20x + y &= 29 \end{aligned}$$

14) 
$$\begin{aligned} 16x - 3y &= -1 \\ -8x - 4y &= 28 \end{aligned}$$

15) 
$$\begin{aligned} -8x + 6y &= -4 \\ 3x + 12y &= 30 \end{aligned}$$

16) 
$$\begin{aligned} -4x - 5y &= 22 \\ 12x - 6y &= -24 \end{aligned}$$

17) 
$$\begin{aligned} -7x - 2y &= 2 \\ 14x + 8y &= 20 \end{aligned}$$

18) 
$$\begin{aligned} 9x - 6y &= 3 \\ -3x - 3y &= 24 \end{aligned}$$

19) 
$$\begin{aligned} -10x + 5y &= 15 \\ 5x - 6y &= -25 \end{aligned}$$

20) 
$$\begin{aligned} 7x - 3y &= 27 \\ -x + 6y &= -15 \end{aligned}$$

21) 
$$\begin{aligned} 7x + 6y &= -12 \\ 14x - 10y &= 20 \end{aligned}$$

22) 
$$\begin{aligned} -4x + 5y &= -27 \\ -12x - 9y &= -9 \end{aligned}$$

23) 
$$\begin{aligned} 9x + 8y &= 16 \\ -3x - 2y &= -10 \end{aligned}$$

24) 
$$\begin{aligned} 9x + 16y &= 9 \\ -5x - 8y &= -5 \end{aligned}$$



## Answers to Assignment (ID: 6)

- |                                 |                |                |                 |
|---------------------------------|----------------|----------------|-----------------|
| 1) $(2, -3)$                    | 2) $(0, 3)$    | 3) $(-1, -1)$  | 4) $(-5, -8)$   |
| 5) $(8, -4)$                    | 6) $(-2, -7)$  | 7) $(0, 0)$    |                 |
| 8) Infinite number of solutions |                | 9) No solution | 10) No solution |
| 11) No solution                 | 12) $(1, 10)$  | 13) $(-1, 9)$  | 14) $(-1, -5)$  |
| 15) $(2, 2)$                    | 16) $(-3, -2)$ | 17) $(-2, 6)$  | 18) $(-3, -5)$  |
| 19) $(1, 5)$                    | 20) $(3, -2)$  | 21) $(0, -2)$  | 22) $(3, -3)$   |
| 23) $(8, -7)$                   | 24) $(1, 0)$   |                |                 |



**Assignment**

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

**Solve each system by elimination.**

1) 
$$\begin{aligned} 5x - y &= 24 \\ -7x + 7y &= 0 \end{aligned}$$

2) 
$$\begin{aligned} 2x - 5y &= -24 \\ -10x - 7y &= -8 \end{aligned}$$

3) 
$$\begin{aligned} x + y &= 15 \\ -4x + 2y &= 0 \end{aligned}$$

4) 
$$\begin{aligned} 9x + 5y &= -24 \\ 18x + 4y &= -30 \end{aligned}$$

5) 
$$\begin{aligned} 3x - 2y &= -6 \\ 4x - 10y &= -30 \end{aligned}$$

6) 
$$\begin{aligned} -4x - y &= 12 \\ 8x - 7y &= -24 \end{aligned}$$

7) 
$$\begin{aligned} -9x - 6y &= -21 \\ 5x - 2y &= 1 \end{aligned}$$

8) 
$$\begin{aligned} x - 10y &= 27 \\ 7x - 2y &= -15 \end{aligned}$$

9) 
$$\begin{aligned} 2x + 2y &= -28 \\ -9x + 10y &= -7 \end{aligned}$$

10) 
$$\begin{aligned} 8x - 14y &= 2 \\ 2x - 7y &= 11 \end{aligned}$$

11) 
$$\begin{aligned} 8x + 3y &= -22 \\ 16x + 4y &= -24 \end{aligned}$$

12) 
$$\begin{aligned} -6x - y &= -6 \\ 8x + 2y &= 8 \end{aligned}$$

13) 
$$\begin{aligned} 8x - 7y &= -22 \\ 16x - 6y &= -28 \end{aligned}$$

14) 
$$\begin{aligned} 12x + 10y &= -16 \\ -6x - 5y &= 8 \end{aligned}$$

15) 
$$\begin{aligned} 6x - 20y &= -2 \\ 3x - 10y &= 6 \end{aligned}$$

16) 
$$\begin{aligned} 9x + 4y &= -5 \\ 27x + 12y &= -15 \end{aligned}$$

17) 
$$\begin{aligned} 2x - y &= 11 \\ 4x - 2y &= 22 \end{aligned}$$

18) 
$$\begin{aligned} 2x - 5y &= -6 \\ 6x - 15y &= -18 \end{aligned}$$

19) 
$$\begin{aligned} 6x + 2y &= -30 \\ -8x - 6y &= 30 \end{aligned}$$

20) 
$$\begin{aligned} -3x + 7y &= 15 \\ 9x + y &= 21 \end{aligned}$$

21) 
$$\begin{aligned} -8x + 15y &= 8 \\ -6x + 5y &= 6 \end{aligned}$$

22) 
$$\begin{aligned} x + 9y &= 27 \\ -6x - 18y &= -18 \end{aligned}$$

23) 
$$\begin{aligned} -18x + 3y &= 6 \\ 9x + 5y &= 10 \end{aligned}$$

24) 
$$\begin{aligned} -6x - 10y &= -20 \\ -x + 5y &= 10 \end{aligned}$$



## Answers to Assignment (ID: 7)

- |                                  |                                  |                                  |             |
|----------------------------------|----------------------------------|----------------------------------|-------------|
| 1) (6, 6)                        | 2) (-2, 4)                       | 3) (5, 10)                       | 4) (-1, -3) |
| 5) (0, 3)                        | 6) (-3, 0)                       | 7) (1, 2)                        | 8) (-3, -3) |
| 9) (-7, -7)                      | 10) (-5, -3)                     | 11) (1, -10)                     | 12) (1, 0)  |
| 13) (-1, 2)                      | 14) Infinite number of solutions | 15) No solution                  |             |
| 16) Infinite number of solutions | 17) Infinite number of solutions | 18) Infinite number of solutions |             |
| 19) (-6, 3)                      | 20) (2, 3)                       | 21) (-1, 0)                      | 22) (-9, 4) |
| 23) (0, 2)                       | 24) (0, 2)                       |                                  |             |



**Assignment****Solve each system by elimination.**

1) 
$$\begin{aligned} -2x + 6y &= -4 \\ 8x - 3y &= 16 \end{aligned}$$

2) 
$$\begin{aligned} 6x - 5y &= 14 \\ 3x + 6y &= -27 \end{aligned}$$

3) 
$$\begin{aligned} -10x + 9y &= -24 \\ 9x - 3y &= -9 \end{aligned}$$

4) 
$$\begin{aligned} -3x - 8y &= -8 \\ -2x + 16y &= 16 \end{aligned}$$

5) 
$$\begin{aligned} 14x + 6y &= -16 \\ -7x - 5y &= -10 \end{aligned}$$

6) 
$$\begin{aligned} -2x - 8y &= 16 \\ -5x + 4y &= -8 \end{aligned}$$

7) 
$$\begin{aligned} -16x - 8y &= -16 \\ -8x + 7y &= -8 \end{aligned}$$

8) 
$$\begin{aligned} -16x + 10y &= -10 \\ -8x + 8y &= 16 \end{aligned}$$

9) 
$$\begin{aligned} -2x + 2y &= -6 \\ 10x - 5y &= -10 \end{aligned}$$

10) 
$$\begin{aligned} -2x + 6y &= 6 \\ -x + y &= -5 \end{aligned}$$

11) 
$$\begin{aligned} 3x + 10y &= 4 \\ -x - 20y &= -18 \end{aligned}$$

12) 
$$\begin{aligned} 20x - 2y &= -20 \\ 10x - 6y &= -10 \end{aligned}$$

13) 
$$\begin{aligned} -18x - y &= 20 \\ -9x + 2y &= 5 \end{aligned}$$

14) 
$$\begin{aligned} -10x - 5y &= -30 \\ -5x - y &= -24 \end{aligned}$$

15) 
$$\begin{aligned} 8x + 5y &= 23 \\ x + 4y &= -14 \end{aligned}$$

16) 
$$\begin{aligned} -14x + 9y &= 25 \\ 7x - 8y &= 5 \end{aligned}$$

17) 
$$\begin{aligned} 10x - 4y &= 2 \\ -5x - 8y &= -21 \end{aligned}$$

18) 
$$\begin{aligned} -3x - 8y &= 5 \\ -4x - 4y &= 20 \end{aligned}$$

19) 
$$\begin{aligned} 14x + 2y &= 6 \\ 7x + 6y &= 18 \end{aligned}$$

20) 
$$\begin{aligned} 9x - 5y &= 5 \\ 3x + 8y &= -8 \end{aligned}$$

21) 
$$\begin{aligned} -10x - 10y &= 10 \\ -5x - 5y &= 5 \end{aligned}$$

22) 
$$\begin{aligned} 3x + 4y &= 4 \\ 9x + 12y &= 3 \end{aligned}$$

23) 
$$\begin{aligned} -5x - 9y &= -28 \\ -10x - 18y &= -28 \end{aligned}$$

24) 
$$\begin{aligned} -6x - 12y &= 6 \\ 3x + 6y &= -3 \end{aligned}$$



## Answers to Assignment (ID: 8)

- |                                  |                 |                 |                |
|----------------------------------|-----------------|-----------------|----------------|
| 1) $(2, 0)$                      | 2) $(-1, -4)$   | 3) $(-3, -6)$   | 4) $(0, 1)$    |
| 5) $(-5, 9)$                     | 6) $(0, -2)$    | 7) $(1, 0)$     | 8) $(5, 7)$    |
| 9) $(-5, -8)$                    | 10) $(9, 4)$    | 11) $(-2, 1)$   | 12) $(-1, 0)$  |
| 13) $(-1, -2)$                   | 14) $(6, -6)$   | 15) $(6, -5)$   | 16) $(-5, -5)$ |
| 17) $(1, 2)$                     | 18) $(-7, 2)$   | 19) $(0, 3)$    | 20) $(0, -1)$  |
| 21) Infinite number of solutions | 22) No solution | 23) No solution |                |
| 24) Infinite number of solutions |                 |                 |                |



**Assignment**

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

**Solve each system by elimination.**

1) 
$$\begin{aligned} -10x - 3y &= 13 \\ 20x + y &= -21 \end{aligned}$$

2) 
$$\begin{aligned} -7x - 2y &= 16 \\ -2x - 6y &= 10 \end{aligned}$$

3) 
$$\begin{aligned} -6x + 7y &= -25 \\ -3x - 9y &= 0 \end{aligned}$$

4) 
$$\begin{aligned} -3x - 7y &= -9 \\ 6x + 6y &= -6 \end{aligned}$$

5) 
$$\begin{aligned} -16x + 9y &= -16 \\ 8x - 8y &= 8 \end{aligned}$$

6) 
$$\begin{aligned} -3x - 2y &= -3 \\ 8x + 8y &= 16 \end{aligned}$$

7) 
$$\begin{aligned} 8x - 3y &= -2 \\ 16x - 7y &= 6 \end{aligned}$$

8) 
$$\begin{aligned} -x - 8y &= -5 \\ 3x + 16y &= 7 \end{aligned}$$

9) 
$$\begin{aligned} 7x - 12y &= 13 \\ -5x + 4y &= 9 \end{aligned}$$

10) 
$$\begin{aligned} -8x - 6y &= -6 \\ 16x + 9y &= -15 \end{aligned}$$

11) 
$$\begin{aligned} -9x + 3y &= -3 \\ -18x + 5y &= -11 \end{aligned}$$

12) 
$$\begin{aligned} 4x + 6y &= 2 \\ x + 3y &= -1 \end{aligned}$$

13) 
$$\begin{aligned} 8x + 3y &= -26 \\ 16x - 2y &= -4 \end{aligned}$$

14) 
$$\begin{aligned} 5x + 2y &= -16 \\ x - 10y &= 28 \end{aligned}$$

15) 
$$\begin{aligned} 6x - 12y &= 0 \\ -5x + 2y &= 24 \end{aligned}$$

16) 
$$\begin{aligned} 6x - 16y &= 26 \\ x + 8y &= -17 \end{aligned}$$

17) 
$$\begin{aligned} 5x - 4y &= 12 \\ 9x - 12y &= -12 \end{aligned}$$

18) 
$$\begin{aligned} 10x + 4y &= -16 \\ -20x - 6y &= 14 \end{aligned}$$

19) 
$$\begin{aligned} 6x + 2y &= 16 \\ 12x - 3y &= -24 \end{aligned}$$

20) 
$$\begin{aligned} -5x + 6y &= -2 \\ 3x + 12y &= -30 \end{aligned}$$

21) 
$$\begin{aligned} -2x + y &= -3 \\ -4x + 6y &= -26 \end{aligned}$$

22) 
$$\begin{aligned} 3x - 9y &= -6 \\ 12x + 6y &= -24 \end{aligned}$$

23) 
$$\begin{aligned} -4x - 4y &= 28 \\ 5x + y &= -27 \end{aligned}$$

24) 
$$\begin{aligned} 2x - 3y &= 8 \\ -3x + 6y &= -9 \end{aligned}$$



## Answers to Assignment (ID: 9)

- |                |                |                |                |
|----------------|----------------|----------------|----------------|
| 1) $(-1, -1)$  | 2) $(-2, -1)$  | 3) $(3, -1)$   | 4) $(-4, 3)$   |
| 5) $(1, 0)$    | 6) $(-1, 3)$   | 7) $(-4, -10)$ | 8) $(-3, 1)$   |
| 9) $(-5, -4)$  | 10) $(-6, 9)$  | 11) $(2, 5)$   | 12) $(2, -1)$  |
| 13) $(-1, -6)$ | 14) $(-2, -3)$ | 15) $(-6, -3)$ | 16) $(-1, -2)$ |
| 17) $(8, 7)$   | 18) $(2, -9)$  | 19) $(0, 8)$   | 20) $(-2, -2)$ |
| 21) $(-1, -5)$ | 22) $(-2, 0)$  | 23) $(-5, -2)$ | 24) $(7, 2)$   |



**Assignment**

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

**Solve each system by elimination.**

1) 
$$\begin{aligned} -7x - y &= -8 \\ -14x - 6y &= 8 \end{aligned}$$

2) 
$$\begin{aligned} -3x + 3y &= 0 \\ 2x - 9y &= -14 \end{aligned}$$

3) 
$$\begin{aligned} 6x - 18y &= 12 \\ -4x + 9y &= 1 \end{aligned}$$

4) 
$$\begin{aligned} -2x - 8y &= 0 \\ -6x - 24y &= 0 \end{aligned}$$

5) 
$$\begin{aligned} -3x - y &= -5 \\ -33x - 11y &= -11 \end{aligned}$$

6) 
$$\begin{aligned} -4x + 2y &= 8 \\ 8x - 4y &= -16 \end{aligned}$$

7) 
$$\begin{aligned} -10x + 20y &= -20 \\ -5x + 10y &= -10 \end{aligned}$$

8) 
$$\begin{aligned} 7x + 10y &= -21 \\ 6x + 20y &= -18 \end{aligned}$$

9) 
$$\begin{aligned} -x - 10y &= 30 \\ -2x - 5y &= 30 \end{aligned}$$

10) 
$$\begin{aligned} -7x - 3y &= -28 \\ -3x + 9y &= -12 \end{aligned}$$

11) 
$$\begin{aligned} -7x + 8y &= 14 \\ 4x + 16y &= -8 \end{aligned}$$

12) 
$$\begin{aligned} 10x + 12y &= -6 \\ 2x + 4y &= 2 \end{aligned}$$

13) 
$$\begin{aligned} -7x + 2y &= 11 \\ -3x + y &= 5 \end{aligned}$$

14) 
$$\begin{aligned} 9x + 10y &= -24 \\ 2x + 5y &= -22 \end{aligned}$$

15) 
$$\begin{aligned} 2x - 2y &= 2 \\ 12x + 3y &= 27 \end{aligned}$$

16) 
$$\begin{aligned} 6x + 5y &= 25 \\ 3x - 7y &= 22 \end{aligned}$$

17) 
$$\begin{aligned} -4x - 12y &= -16 \\ -3x + 3y &= 12 \end{aligned}$$

18) 
$$\begin{aligned} -9x - 3y &= 30 \\ -7x - 9y &= 10 \end{aligned}$$

19) 
$$\begin{aligned} -4x - 6y &= -12 \\ -x - 12y &= -3 \end{aligned}$$

20) 
$$\begin{aligned} 7x + 18y &= 28 \\ x + 9y &= 4 \end{aligned}$$

21) 
$$\begin{aligned} 6x - 8y &= -6 \\ -3x + 3y &= 3 \end{aligned}$$

22) 
$$\begin{aligned} -18x - 8y &= -28 \\ -9x - 2y &= -16 \end{aligned}$$

23) 
$$\begin{aligned} 3x + 8y &= 5 \\ 2x + y &= 12 \end{aligned}$$

24) 
$$\begin{aligned} 5x - 14y &= 23 \\ 9x - 7y &= 5 \end{aligned}$$



## Answers to Assignment (ID: 10)

- |                                 |                |                                 |
|---------------------------------|----------------|---------------------------------|
| 1) $(2, -6)$                    | 2) $(2, 2)$    | 3) $(-7, -3)$                   |
| 4) Infinite number of solutions | 5) No solution | 6) Infinite number of solutions |
| 7) Infinite number of solutions | 8) $(-3, 0)$   | 9) $(-10, -2)$                  |
| 10) $(4, 0)$                    | 11) $(-2, 0)$  | 12) $(-3, 2)$                   |
| 14) $(4, -6)$                   | 15) $(2, 1)$   | 16) $(5, -1)$                   |
| 18) $(-4, 2)$                   | 19) $(3, 0)$   | 20) $(4, 0)$                    |
| 22) $(2, -1)$                   | 23) $(7, -2)$  | 24) $(-1, -2)$                  |

