

**Assignment**

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

**Solve each system by substitution.**

1) 
$$\begin{aligned} -2x - 4y &= -16 \\ 6x - 2y &= 20 \end{aligned}$$

2) 
$$\begin{aligned} 5x + 2y &= 20 \\ 6x + 5y &= 24 \end{aligned}$$

3) 
$$\begin{aligned} -2x - 2y &= 20 \\ 7x - 6y &= -5 \end{aligned}$$

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

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

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

7) 
$$\begin{aligned} y &= -1 \\ 5x - 4y &= -6 \end{aligned}$$

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

9) 
$$\begin{aligned} 4x - 3y &= 10 \\ -2x + 3y &= -14 \end{aligned}$$

10) 
$$\begin{aligned} 6x + 2y &= -14 \\ 8x - 4y &= 8 \end{aligned}$$

11) 
$$\begin{aligned} -4x - 8y &= -12 \\ y &= 4 \end{aligned}$$

12) 
$$\begin{aligned} 3x - 7y &= 9 \\ -x - 3y &= 13 \end{aligned}$$

13) 
$$\begin{aligned} y &= 5 \\ 3x + 7y &= 14 \end{aligned}$$

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

15) 
$$\begin{aligned} 2x + 3y &= 8 \\ 2x - 6y &= -10 \end{aligned}$$

16) 
$$\begin{aligned} -x + 6y &= -5 \\ 4x + 3y &= 20 \end{aligned}$$

17) 
$$\begin{aligned} -x + 3y &= -16 \\ 2x - 4y &= 24 \end{aligned}$$

18) 
$$\begin{aligned} -6x - 3y &= 6 \\ -12x - 6y &= -2 \end{aligned}$$

19) 
$$\begin{aligned} -2x - 5y &= 22 \\ -x - 5y &= 21 \end{aligned}$$

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

21) 
$$\begin{aligned} 3x - 4y &= -23 \\ y &= 2 \end{aligned}$$

22) 
$$\begin{aligned} -4x + 4y &= 12 \\ -2x + 6y &= -14 \end{aligned}$$

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

24) 
$$\begin{aligned} -6x + 2y &= 12 \\ 8x + 7y &= -16 \end{aligned}$$



## Answers to Assignment (ID: 1)

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



**Assignment****Solve each system by substitution.**

1) 
$$\begin{aligned} 5x + 3y &= 8 \\ -15x - 9y &= -3 \end{aligned}$$

2) 
$$\begin{aligned} 4x - 8y &= -20 \\ 5x - 2y &= -17 \end{aligned}$$

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

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

5) 
$$\begin{aligned} 2x - 7y &= -1 \\ 6x - y &= -23 \end{aligned}$$

6) 
$$\begin{aligned} -6x + 7y &= 12 \\ -4x + 3y &= 8 \end{aligned}$$

7) 
$$\begin{aligned} -7x + 4y &= 10 \\ 8x + 5y &= -21 \end{aligned}$$

8) 
$$\begin{aligned} 5x + 3y &= -23 \\ 3x - 3y &= -9 \end{aligned}$$

9) 
$$\begin{aligned} -8x + 6y &= -4 \\ 5x - 8y &= 11 \end{aligned}$$

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

11) 
$$\begin{aligned} 5x + 5y &= 0 \\ -3x - 7y &= -16 \end{aligned}$$

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

13) 
$$\begin{aligned} y &= -2 \\ 5x - 6y &= -8 \end{aligned}$$

14) 
$$\begin{aligned} 2x - 4y &= -3 \\ -4x + 8y &= 2 \end{aligned}$$

15) 
$$\begin{aligned} 4x + 7y &= 16 \\ y &= 0 \end{aligned}$$

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

17) 
$$\begin{aligned} 2x - y &= 2 \\ -6x + 2y &= -10 \end{aligned}$$

18) 
$$\begin{aligned} 3x + 2y &= 19 \\ y &= 8 \end{aligned}$$

19) 
$$\begin{aligned} y &= -5 \\ -3x + 5y &= -7 \end{aligned}$$

20) 
$$\begin{aligned} -6x + 3y &= -6 \\ y &= -8 \end{aligned}$$

21) 
$$\begin{aligned} -8x + 2y &= 6 \\ -7x + 3y &= 14 \end{aligned}$$

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

23) 
$$\begin{aligned} -3x + 2y &= 4 \\ 7x + 3y &= 6 \end{aligned}$$

24) 
$$\begin{aligned} -5x + 3y &= -6 \\ 5x - 3y &= -2 \end{aligned}$$



## Answers to Assignment (ID: 2)

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



**Assignment**

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

**Solve each system by substitution.**

1)  $y = 8$   
 $-3x + 3y = 18$

2)  $6x + 3y = -24$   
 $-3x - 4y = -8$

3)  $-x - 7y = -13$   
 $-4x - 7y = 11$

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

5)  $-7x + 6y = 8$   
 $-5x + 5y = 0$

6)  $-5x - 5y = 10$   
 $5x - y = 14$

7)  $-5x - 3y = 8$   
 $-7x + 6y = 1$

8)  $5x - 7y = -16$   
 $y = 8$

9)  $6x - 3y = 6$   
 $-7x - 2y = -18$

10)  $-2x + 8y = -2$   
 $6x - 7y = 23$

11)  $-6x - 5y = -1$   
 $-12x - 10y = -2$

12)  $-2x - 3y = 14$   
 $6x - 2y = 2$

13)  $8x - 5y = -14$   
 $2x - 4y = 2$

14)  $-3x - 7y = 9$   
 $-6x - 14y = 18$

15)  $-6x + 4y = -6$   
 $-2x + 7y = -2$

16)  $8x - 8y = 8$   
 $6x - 7y = 10$

17)  $-5x - 6y = 18$   
 $5x + 4y = -2$

18)  $y = 4$   
 $-2x - 5y = -10$

19)  $y = 4$   
 $-4x + 3y = 20$

20)  $y = -1$   
 $5x + 5y = 10$

21)  $4x + 3y = -5$   
 $y = -3$

22)  $-3x - 7y = -23$   
 $3x - 4y = 1$

23)  $2x + 8y = 8$   
 $-5x - 7y = -20$

24)  $-3x - 4y = -5$   
 $9x + 12y = -7$



## Answers to Assignment (ID: 3)

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



**Assignment****Solve each system by substitution.**

1) 
$$\begin{aligned} 5x + 6y &= 19 \\ 6x - 4y &= -22 \end{aligned}$$

2) 
$$\begin{aligned} 2x - 3y &= 11 \\ -7x + 6y &= -16 \end{aligned}$$

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

4) 
$$\begin{aligned} 5x + 2y &= 15 \\ 6x - 2y &= -4 \end{aligned}$$

5) 
$$\begin{aligned} 3x - 8y &= 14 \\ -7x + 2y &= -16 \end{aligned}$$

6) 
$$\begin{aligned} 2x - 6y &= -2 \\ 5x - y &= -19 \end{aligned}$$

7) 
$$\begin{aligned} -4x - 4y &= -16 \\ -7x + 6y &= -15 \end{aligned}$$

8) 
$$\begin{aligned} 6x - 3y &= 0 \\ -7x + 5y &= -12 \end{aligned}$$

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

10) 
$$\begin{aligned} 2x + 2y &= 6 \\ -4x - 7y &= -9 \end{aligned}$$

11) 
$$\begin{aligned} -4x + 5y &= -17 \\ 2x - 4y &= 16 \end{aligned}$$

12) 
$$\begin{aligned} 6x - 2y &= -16 \\ 3x + 2y &= -20 \end{aligned}$$

13) 
$$\begin{aligned} 4x - 3y &= 1 \\ -2x - 5y &= 19 \end{aligned}$$

14) 
$$\begin{aligned} 3x - y &= -8 \\ 6x + 3y &= -21 \end{aligned}$$

15) 
$$\begin{aligned} -6x - y &= 14 \\ 3x - 2y &= -17 \end{aligned}$$

16) 
$$\begin{aligned} 6x + 6y &= -12 \\ 2x - y &= 17 \end{aligned}$$

17) 
$$\begin{aligned} -8x - 3y &= 3 \\ 16x + 6y &= 6 \end{aligned}$$

18) 
$$\begin{aligned} -7x - 2y &= -20 \\ 5x + 8y &= -12 \end{aligned}$$

19) 
$$\begin{aligned} -7x + 4y &= -2 \\ -5x - 2y &= 18 \end{aligned}$$

20) 
$$\begin{aligned} 4x + 7y &= 1 \\ 7x - y &= 15 \end{aligned}$$

21) 
$$\begin{aligned} -2x - 5y &= 1 \\ 5x - 8y &= 18 \end{aligned}$$

22) 
$$\begin{aligned} -x + 5y &= 7 \\ -3x - 4y &= -17 \end{aligned}$$

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

24) 
$$\begin{aligned} -3x - 2y &= 11 \\ -3x - 4y &= 1 \end{aligned}$$



## Answers to Assignment (ID: 4)

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



**Assignment**

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**Solve each system by substitution.**

1) 
$$\begin{aligned} -2x + 8y &= 10 \\ -x - 6y &= -15 \end{aligned}$$

2) 
$$\begin{aligned} -5x + 3y &= -12 \\ -x + 3y &= 0 \end{aligned}$$

3) 
$$\begin{aligned} -4x + 4y &= -24 \\ -8x - y &= -12 \end{aligned}$$

4) 
$$\begin{aligned} 8x - 4y &= 8 \\ -7x + 3y &= -10 \end{aligned}$$

5) 
$$\begin{aligned} -8x - 4y &= -20 \\ 3x + 4y &= 0 \end{aligned}$$

6) 
$$\begin{aligned} 5x + 8y &= 22 \\ 2x - 5y &= 17 \end{aligned}$$

7) 
$$\begin{aligned} -8x - y &= -12 \\ -5x - 3y &= -17 \end{aligned}$$

8) 
$$\begin{aligned} -3x + 5y &= 14 \\ -5x + 7y &= 22 \end{aligned}$$

9) 
$$\begin{aligned} 2x + 5y &= -12 \\ 2x + 2y &= -6 \end{aligned}$$

10) 
$$\begin{aligned} -x + 6y &= -22 \\ y &= -4 \end{aligned}$$

11) 
$$\begin{aligned} 2x - 3y &= 3 \\ -7x + 7y &= 0 \end{aligned}$$

12) 
$$\begin{aligned} 8x + 4y &= -16 \\ -x - 4y &= 23 \end{aligned}$$

13) 
$$\begin{aligned} 4x + 5y &= -7 \\ -5x + 5y &= 20 \end{aligned}$$

14) 
$$\begin{aligned} 2x - y &= 10 \\ -5x - 3y &= 8 \end{aligned}$$

15) 
$$\begin{aligned} 8x - 16y &= 1 \\ 4x - 8y &= 2 \end{aligned}$$

16) 
$$\begin{aligned} 2x + 2y &= -12 \\ 2x + 8y &= -6 \end{aligned}$$

17) 
$$\begin{aligned} y &= -4 \\ -2x + 7y &= -24 \end{aligned}$$

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

19) 
$$\begin{aligned} 8x - 6y &= -18 \\ 6x - 4y &= -16 \end{aligned}$$

20) 
$$\begin{aligned} 4x - 2y &= 18 \\ -3x - 5y &= -7 \end{aligned}$$

21) 
$$\begin{aligned} 6x - 8y &= 2 \\ -18x + 24y &= 6 \end{aligned}$$

22) 
$$\begin{aligned} -3x - 2y &= -16 \\ 2x + 6y &= 20 \end{aligned}$$

23) 
$$\begin{aligned} 5x + 8y &= -16 \\ 3x + 2y &= 10 \end{aligned}$$

24) 
$$\begin{aligned} -12x + 14y &= -2 \\ 6x - 7y &= 1 \end{aligned}$$



## Answers to Assignment (ID: 5)

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



**Assignment**

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

**Solve each system by substitution.**

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

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

3) 
$$\begin{aligned} 4x + 5y &= -6 \\ -6x + 7y &= -20 \end{aligned}$$

4) 
$$\begin{aligned} -3x + 2y &= 5 \\ 8x - 5y &= -13 \end{aligned}$$

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

6) 
$$\begin{aligned} -2x - 6y &= -14 \\ 5x + 7y &= -5 \end{aligned}$$

7) 
$$\begin{aligned} y &= 0 \\ -3x + 2y &= 12 \end{aligned}$$

8) 
$$\begin{aligned} 5x + 3y &= -19 \\ y &= 7 \end{aligned}$$

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

10) 
$$\begin{aligned} y &= 1 \\ 4x + 2y &= -2 \end{aligned}$$

11) 
$$\begin{aligned} -x + 3y &= -7 \\ 3x - 3y &= 9 \end{aligned}$$

12) 
$$\begin{aligned} 6x + 5y &= 14 \\ -5x - y &= -18 \end{aligned}$$

13) 
$$\begin{aligned} 6x + 6y &= -24 \\ -2x + 2y &= -8 \end{aligned}$$

14) 
$$\begin{aligned} 6x + 3y &= 0 \\ 2x - 3y &= 16 \end{aligned}$$

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

16) 
$$\begin{aligned} 7x - 2y &= 11 \\ -8x + 7y &= -22 \end{aligned}$$

17) 
$$\begin{aligned} 7x + 5y &= -5 \\ -3x - 2y &= 2 \end{aligned}$$

18) 
$$\begin{aligned} -3x - 5y &= -8 \\ 7x + 5y &= -8 \end{aligned}$$

19) 
$$\begin{aligned} -4x - 8y &= -12 \\ -3x - 3y &= -3 \end{aligned}$$

20) 
$$\begin{aligned} 5x - y &= 15 \\ 7x - 7y &= -7 \end{aligned}$$

21) 
$$\begin{aligned} -4x - 2y &= 0 \\ 6x - 5y &= 16 \end{aligned}$$

22) 
$$\begin{aligned} -6x - 6y &= -18 \\ -7x + 8y &= -21 \end{aligned}$$

23) 
$$\begin{aligned} 4x + 3y &= 12 \\ y &= 0 \end{aligned}$$

24) 
$$\begin{aligned} -4x - 3y &= -4 \\ 5x + 2y &= 12 \end{aligned}$$



## Answers to Assignment (ID: 6)

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



**Assignment**

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

**Solve each system by substitution.**

1) 
$$\begin{aligned} 7x - 4y &= -13 \\ -8x + 3y &= 18 \end{aligned}$$

2) 
$$\begin{aligned} -5x + 7y &= -9 \\ 6x - 7y &= 15 \end{aligned}$$

3) 
$$\begin{aligned} -3x + 7y &= 17 \\ y &= 5 \end{aligned}$$

4) 
$$\begin{aligned} 4x + 6y &= -30 \\ -2x - 3y &= 15 \end{aligned}$$

5) 
$$\begin{aligned} -6x + 3y &= 1 \\ -18x + 9y &= 4 \end{aligned}$$

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

7) 
$$\begin{aligned} -6x + 5y &= 8 \\ -2x - 6y &= 18 \end{aligned}$$

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

9) 
$$\begin{aligned} 6x - y &= -17 \\ -18x + 3y &= 51 \end{aligned}$$

10) 
$$\begin{aligned} 2x + 2y &= -2 \\ -5x - y &= -11 \end{aligned}$$

11) 
$$\begin{aligned} 2x - y &= -24 \\ 6x + 3y &= -24 \end{aligned}$$

12) 
$$\begin{aligned} -2x + 2y &= 10 \\ 5x + 7y &= 23 \end{aligned}$$

13) 
$$\begin{aligned} y &= 3 \\ 7x - 4y &= -12 \end{aligned}$$

14) 
$$\begin{aligned} y &= 2 \\ 4x + 3y &= 18 \end{aligned}$$

15) 
$$\begin{aligned} 8x + 3y &= -6 \\ -16x - 6y &= 1 \end{aligned}$$

16) 
$$\begin{aligned} 3x - y &= -9 \\ 9x - 3y &= -27 \end{aligned}$$

17) 
$$\begin{aligned} 4x - 5y &= -18 \\ -8x - 8y &= 0 \end{aligned}$$

18) 
$$\begin{aligned} -4x + 4y &= 0 \\ -8x + 8y &= 0 \end{aligned}$$

19) 
$$\begin{aligned} 8x - 4y &= -24 \\ 3x - 7y &= 13 \end{aligned}$$

20) 
$$\begin{aligned} -7x + 3y &= -12 \\ -x + 3y &= -12 \end{aligned}$$

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

22) 
$$\begin{aligned} 8x + 7y &= 6 \\ -5x - y &= 3 \end{aligned}$$

23) 
$$\begin{aligned} -6x + 5y &= 18 \\ y &= 0 \end{aligned}$$

24) 
$$\begin{aligned} 5x - 7y &= 5 \\ -7x - 3y &= -7 \end{aligned}$$



## Answers to Assignment (ID: 7)

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



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**Solve each system by substitution.**

1) 
$$\begin{aligned} 8x - 6y &= -6 \\ -4x - 2y &= -22 \end{aligned}$$

2) 
$$\begin{aligned} -7x - 3y &= 15 \\ -3x - 4y &= 1 \end{aligned}$$

3) 
$$\begin{aligned} -6x + 5y &= 5 \\ 3x - 7y &= 20 \end{aligned}$$

4) 
$$\begin{aligned} -3x - 4y &= -23 \\ -8x - y &= 16 \end{aligned}$$

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

6) 
$$\begin{aligned} -3x - 4y &= -10 \\ -2x + 7y &= 3 \end{aligned}$$

7) 
$$\begin{aligned} -8x - 7y &= -14 \\ 3x + 4y &= 8 \end{aligned}$$

8) 
$$\begin{aligned} -4x + 5y &= 18 \\ -4x + 3y &= 22 \end{aligned}$$

9) 
$$\begin{aligned} -3x - 3y &= 0 \\ -5x - 6y &= 5 \end{aligned}$$

10) 
$$\begin{aligned} -4x - 3y &= 1 \\ 6x + 2y &= 6 \end{aligned}$$

11) 
$$\begin{aligned} -2x - 8y &= 4 \\ 4x + 2y &= 6 \end{aligned}$$

12) 
$$\begin{aligned} -4x - 3y &= -4 \\ 6x - y &= -16 \end{aligned}$$

13) 
$$\begin{aligned} 7x + 3y &= 0 \\ -2x - 2y &= -8 \end{aligned}$$

14) 
$$\begin{aligned} 5x - 5y &= 5 \\ -8x + 2y &= 4 \end{aligned}$$

15) 
$$\begin{aligned} -8x + 5y &= 3 \\ -8x - 8y &= 16 \end{aligned}$$

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

17) 
$$\begin{aligned} -8x - 6y &= 1 \\ 16x + 12y &= 7 \end{aligned}$$

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

19) 
$$\begin{aligned} 3x + 4y &= 19 \\ -2x - y &= -6 \end{aligned}$$

20) 
$$\begin{aligned} -4x - 7y &= 21 \\ -8x - 7y &= 21 \end{aligned}$$

21) 
$$\begin{aligned} -5x - 7y &= 5 \\ -6x - 7y &= 13 \end{aligned}$$

22) 
$$\begin{aligned} -7x + 6y &= -17 \\ -x + 3y &= 4 \end{aligned}$$

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

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



## Answers to Assignment (ID: 8)

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



**Assignment**

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

**Solve each system by substitution.**

1) 
$$\begin{aligned} -2x + 4y &= -14 \\ 5x - y &= 8 \end{aligned}$$

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

3) 
$$\begin{aligned} 6x - 3y &= 6 \\ -8x - y &= -18 \end{aligned}$$

4) 
$$\begin{aligned} 3x - y &= 11 \\ 4x - 2y &= 18 \end{aligned}$$

5) 
$$\begin{aligned} 5x - 3y &= -17 \\ -8x + 6y &= 20 \end{aligned}$$

6) 
$$\begin{aligned} -3x + 3y &= 21 \\ 3x + 7y &= 19 \end{aligned}$$

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

8) 
$$\begin{aligned} 3x + 2y &= 3 \\ 7x + 4y &= 11 \end{aligned}$$

9) 
$$\begin{aligned} 7x + 5y &= 2 \\ 8x - 8y &= 16 \end{aligned}$$

10) 
$$\begin{aligned} 7x - 4y &= -21 \\ 7x + 3y &= -21 \end{aligned}$$

11) 
$$\begin{aligned} -4x + 8y &= 0 \\ 5x - 4y &= -6 \end{aligned}$$

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

13) 
$$\begin{aligned} -4x + 8y &= -4 \\ 3x - 4y &= 5 \end{aligned}$$

14) 
$$\begin{aligned} -4x - 7y &= 14 \\ 5x - 3y &= 6 \end{aligned}$$

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

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

17) 
$$\begin{aligned} 3x + 5y &= 7 \\ -8x + 4y &= 16 \end{aligned}$$

18) 
$$\begin{aligned} -3x + 4y &= 18 \\ -7x + 2y &= -2 \end{aligned}$$

19) 
$$\begin{aligned} 4x - 2y &= 8 \\ 7x - 6y &= -1 \end{aligned}$$

20) 
$$\begin{aligned} -x + 2y &= 8 \\ -x - 4y &= 8 \end{aligned}$$

21) 
$$\begin{aligned} -2x - 3y &= 10 \\ -6x + 6y &= 0 \end{aligned}$$

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

23) 
$$\begin{aligned} -6x - 7y &= 18 \\ 2x + 8y &= -6 \end{aligned}$$

24) 
$$\begin{aligned} -x + 7y &= 16 \\ 5x - 8y &= 1 \end{aligned}$$



## Answers to Assignment (ID: 9)

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



**Assignment****Solve each system by substitution.**

1) 
$$\begin{aligned} -6x + 5y &= -20 \\ -3x + 4y &= -16 \end{aligned}$$

2) 
$$\begin{aligned} 4x + 6y &= 6 \\ -7x + 2y &= 2 \end{aligned}$$

3) 
$$\begin{aligned} 5x + 8y &= -19 \\ -3x - y &= 0 \end{aligned}$$

4) 
$$\begin{aligned} 5x - 7y &= -16 \\ -3x - 6y &= -21 \end{aligned}$$

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

6) 
$$\begin{aligned} -9x + 6y &= -3 \\ -3x + 2y &= 1 \end{aligned}$$

7) 
$$\begin{aligned} -x + 5y &= 13 \\ 3x - 4y &= -17 \end{aligned}$$

8) 
$$\begin{aligned} -5x - 4y &= 6 \\ -4x - 8y &= -24 \end{aligned}$$

9) 
$$\begin{aligned} -7x - 6y &= -23 \\ 2x - 2y &= 14 \end{aligned}$$

10) 
$$\begin{aligned} 5x + 3y &= 3 \\ -7x - 6y &= -6 \end{aligned}$$

11) 
$$\begin{aligned} 4x + 8y &= 40 \\ 2x + 4y &= 20 \end{aligned}$$

12) 
$$\begin{aligned} -5x - y &= -1 \\ y &= 1 \end{aligned}$$

13) 
$$\begin{aligned} -x - 8y &= -22 \\ -5x + 4y &= 22 \end{aligned}$$

14) 
$$\begin{aligned} 4x - y &= 3 \\ 8x + 2y &= -6 \end{aligned}$$

15) 
$$\begin{aligned} 8x - 2y &= 2 \\ -8x + 4y &= -4 \end{aligned}$$

16) 
$$\begin{aligned} 12x - 21y &= -5 \\ -4x + 7y &= -7 \end{aligned}$$

17) 
$$\begin{aligned} -8x + 6y &= 20 \\ -2x - 3y &= -4 \end{aligned}$$

18) 
$$\begin{aligned} -4x + 4y &= 16 \\ -2x - 8y &= -22 \end{aligned}$$

19) 
$$\begin{aligned} -4x - 3y &= 21 \\ -2x + 2y &= 14 \end{aligned}$$

20) 
$$\begin{aligned} 6x - 3y &= 0 \\ 2x - 2y &= -6 \end{aligned}$$

21) 
$$\begin{aligned} 18x - 24y &= 66 \\ -6x + 8y &= -22 \end{aligned}$$

22) 
$$\begin{aligned} y &= 5 \\ -5x - 7y &= 5 \end{aligned}$$

23) 
$$\begin{aligned} -24x - 15y &= 0 \\ 8x + 5y &= 0 \end{aligned}$$

24) 
$$\begin{aligned} 4x - 6y &= 6 \\ 3x - y &= 15 \end{aligned}$$



## Answers to Assignment (ID: 10)

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

