

## Assignment 1

Solve each system by substitution.

1)  $-7x + y = -18$   
 $-5x - y = -18$

2)  $x + 4y = 3$   
 $-4x + 6y = 10$

3)  $-8x + y = 4$   
 $-5x + 6y = -19$

4)  $x + 2y = 16$   
 $3x - 8y = -22$

5)  $-3x - y = 8$   
 $x - 8y = -11$

6)  $-4x + y = -18$   
 $8x + 8y = -24$

7)  $-7x + 6y = 1$   
 $x + 3y = 23$

8)  $-8x - 7y = 10$   
 $x - 2y = -7$

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

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

$$\begin{aligned} 11) \quad x + 2y &= -18 \\ -7x + 2y &= 14 \end{aligned}$$

$$\begin{aligned} 12) \quad 8x + 4y &= 16 \\ x - y &= -10 \end{aligned}$$

$$\begin{aligned} 13) \quad -2x + y &= -10 \\ 4x + 2y &= 4 \end{aligned}$$

$$\begin{aligned} 14) \quad 4x - 2y &= -12 \\ x - 4y &= 11 \end{aligned}$$

$$\begin{aligned} 15) \quad 7x - 8y &= -2 \\ x + 3y &= -21 \end{aligned}$$

$$\begin{aligned} 16) \quad 5x + y &= -1 \\ -x + 3y &= -19 \end{aligned}$$

$$\begin{aligned} 17) \quad -x - y &= 9 \\ 3x + y &= -21 \end{aligned}$$

$$\begin{aligned} 18) \quad -7x + y &= 23 \\ 2x + 3y &= 0 \end{aligned}$$

## Answers to Assignment 1

- 1)  $(3, 3)$
- 5)  $(-3, 1)$
- 9)  $(0, 3)$
- 13)  $(3, -4)$
- 17)  $(-6, -3)$

- 2)  $(-1, 1)$
- 6)  $(3, -6)$
- 10)  $(2, 0)$
- 14)  $(-5, -4)$
- 18)  $(-3, 2)$

- 3)  $(-1, -4)$
- 7)  $(5, 6)$
- 11)  $(-4, -7)$
- 15)  $(-6, -5)$

- 4)  $(6, 5)$
- 8)  $(-3, 2)$
- 12)  $(-2, 8)$
- 16)  $(1, -6)$