

Lesson #2: Understanding and Solving Systems of Equations using Graphing and Substitution Methods
(Reference: Lesson #15 & #21 in book)**Problem**

1. For each of the following systems of equations, please solve the system by graphing method and express the solution as a coordinate point.(SHOW ALL OF YOUR WORK.)

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

$$\begin{aligned} 2. \quad & 2x + y = 5 \\ & 3x - 2y = 4 \end{aligned}$$

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

$$\begin{aligned} 4. \quad & 3x - 6y = 18 \\ & -2x + 4y = -12 \end{aligned}$$

5. For each of the following systems of equations, please solve the system by Substitution Method and express the solution as a coordinate point.(SHOW ALL OF YOUR WORK.)

$$\begin{aligned} 5. \quad & y = 5x + 4 \\ & y = -2x - 3 \end{aligned}$$

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

$$\begin{aligned} 7. \quad & 3x - 5y = -9 \\ & 8x + 2y = -24 \end{aligned}$$

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

9. For each of the following systems of equations, please solve the system of equations by the method of your choice (GRAPHING or SUBSTITUTION) and express the solution as a coordinate point (SHOW ALL OF YOUR WORK.)

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

10. $3x - y = 4$
 $-9x + 3y = -12$

11. $2x - 2y = 4$
 $-3x + 2y = -6$

12. $2x + 3y = 5$
 $-4x - 3y = -1$

Lesson 13: Understanding and Solving Systems of Equations using Graphing and Methods

Problem

1. For each of the following systems of equations, please solve the system by graphing method and express the solution as a coordinate point (SHOW ALL OF YOUR WORK)

1. $x + y = -3$
 $2x - 3y = -9$

2. $2x + y = 2$
 $3x - 2y = 4$

3. $6x + 2y = 14$
 $-4x + 3y = -6$

4. $3x - 6y = 18$
 $-2x + 4y = -12$

2. For each of the following systems of equations, please solve the system by substitution Method and express the solution as a coordinate point (SHOW ALL OF YOUR WORK)

5. $y = 2x + 4$
 $y = -2x - 3$

6. $x + 3y = 2$
 $-2x - 4y = 2$

7. $2x - 2y = -9$
 $3x + 2y = -24$

8. $-4x - 3y = -3$
 $2x + 4y = 4$

3. For each of the following systems of equations, please solve the system of equations by the method of your choice (GRAPHING or SUBSTITUTION) and express the solution as a coordinate point (SHOW ALL OF YOUR WORK)

9. $x + 3y = 6$
 $x - 3y = 6$