

**Lesson #13 A-Understanding and Solving Systems of Equations-Methods Review
(Reference: Lesson #55 & #59 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.)

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

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

11. $-15x + 3y = 21$
 $4x - 2y = 10$

12. $-12x - 4y = -24$
 $6x + 2y = -8$