

Lesson #12-2: Understanding and Solving Systems of Equations: Graphing Method
(Reference: Lesson #55 in book)**Problem**

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

1. $5x + 4y = 16$

$10x + 8y = -24$

2. $4x - 6y = 12$

$-6x + 9y = -18$

3. $2x - y = 6$

$6x - 3y = 12$

4. $x + 2y = 6$

$2x + 4y = -8$

5. $-6x + 3y = 3$

$-3x - y = -6$

6. $8x - 4y = 16$

$2x + 3y = 12$

7. $4x - 2y = 8$

$10x = 5y + 20$

8. $12x = 20 - 4y$

$6x + 2y = 12$

9. $9x - 6y = 36$

$4y = -16x + 20$

10. $6x - 8y = 48$

$-6y = 9x - 18$

11. $6x - 3y = 12$

$-16x - 4y = -8$

12. $9x = 3y + 15$

$-12x + 12 = -12y$

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. $2x + 4y = 16$

$11x + 8y = -24$

2. $4x - 6y = 12$

$-6x + 9y = -18$

3. $2x - y = 6$

$6x - 3y = 12$

4. $x + 2y = 6$

$2x + 4y = -8$

5. $-6x + 3y = 3$

$-2x - y = -6$

6. $2x - 4y = 16$

$2x + 3y = 12$

7. $4x - 2y = 8$

$10x = 2y + 20$

8. $12x = 20 - 4y$

$6x + 3y = 12$

9. $3y - 6x = 26$

$4y = -10x + 20$

10. $6x - 8y = 48$

$-6y = 6x - 18$

11. $6x - 3y = 12$

$-16x - 4y = -8$