Systems of Linear Equations: Worksheet

Algebra · Worksheet for https://jugami.com/algebra/systems-of-equations/ · For instant feedback, try the self-guided quiz online.

Name _____ Date _____

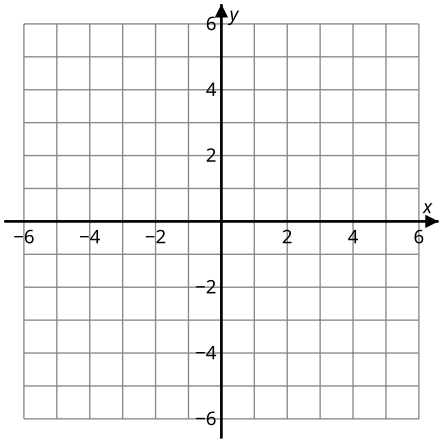
Solve each system on paper. Show your work, and check your answer in both equations.

1. Is (2, 3) a solution of $x + 2y = 8$ and $3x - y = 3$?

Answer: _____

2. Solve by graphing: $y = x - 1$ and $y = -2x + 8$.

Use the grid.



Answer: _____

3. Solve by substitution: $y = 3x - 1$ and $2x + y = 9$.

Answer: _____

4. Solve by substitution: $x + 2y = 9$ and $3x - y = 6$.

Answer: _____

5. Solve by elimination: $5x + 2y = 4$ and $3x - 2y = 12$.

Answer: _____

6. Solve by elimination: $2x + 3y = 7$ and $3x + 4y = 10$.

Answer: _____

7. How many solutions: $4x + 2y = 6$ and $2x + y = 3$?

Answer: _____

8. How many solutions: $y = 2x - 1$ and $4x - 2y = 6$?

Answer: _____

9. A school sold 30 tickets for a play. Adult tickets cost $8 and student tickets cost $5. The sales came to $195. How many of each were sold?

Answer: _____

10. Two numbers add up to 20 and differ by 6. What are they?

Answer: _____

Bonus

A little extra practice with the same skills.

11. $y = x + 2$ and $3x + y = 14$

Answer: _____

12. $x + y = 7$ and $x - y = 1$

Answer: _____

13. $2x + y = 4$ and $4x + 2y = 9$

Answer: _____