

Unit 2: Linear Equations and Systems

PRACTICE · SET 2

Name: _____ Date: _____

Solve each problem and write your answer in the space provided. Show your work on separate paper.

1. Solve for x: $3x + 7 = 22$

Answer: _____

2. Solve for x: $-2x + 9 = 1$

Answer: _____

3. Solve for x: $5(x - 3) = 20$

Answer: _____

4. Solve for x: $(\frac{2}{3})x = 12$

Answer: _____

5. Solve for x: $4x - 1 = 2x + 11$

Answer: _____

6. Solve for x: $7 - 3x = -8$

Answer: _____

7. Find the slope of the line through the points (2, 3) and (6, 11).

Answer: _____

8. For the line $y = 2x - 1$, find the value of y when x = 4.

Answer: _____

9. Solve the system by substitution: $y = x + 1$ and $2x + y = 10$. Give the answer as an ordered pair (x, y).

Answer: _____

10. Solve the system by elimination: $x + y = 10$ and $x - y = 4$. Give the answer as an ordered pair (x, y).

Answer: _____

11. Find the x-intercept of the line $3x + 2y = 12$. Give the x-value where y = 0.

Answer: _____

12. Solve for x: $\frac{x}{4} + 2 = 5$

Answer: _____