Unit 2: Linear Equations and Systems

PRACTICE

Name: _____ Date: _____

Solve each problem. Give each answer exactly (a number, fraction, or coordinate pair) and show your work on separate paper.

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

Answer: _____

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

Answer: _____

3. Solve for x: 2(x - 3) = 10

Answer: _____

4. Solve for x: (x/4) + 5 = 9

Answer: _____

5. Solve for x: 4x + 9 = -3

Answer: _____

6. Solve for x: -2x + 8 = 20

Answer: _____

7. Solve for x: 6x - 5 = 4x + 3. Give the answer as a fraction in lowest terms.

Answer: _____

8. Solve for y: 3y + 2 = 8. Give the answer as a fraction in lowest terms.

Answer: _____

9. Solve the system by substitution and give the answer as a coordinate pair (x, y): y = 2x and x + y = 9

Answer: _____

10. Solve the system by elimination and give the answer as a coordinate pair (x, y): x + y = 7 and x - y = 1

Answer: _____

11. Solve the system and give the answer as a coordinate pair (x, y): y = x + 1 and y = 2x - 3

Answer: _____

12. Solve the system by elimination and give the answer as a coordinate pair (x, y): 2x + y = 10 and x - y = 2

Answer: _____