

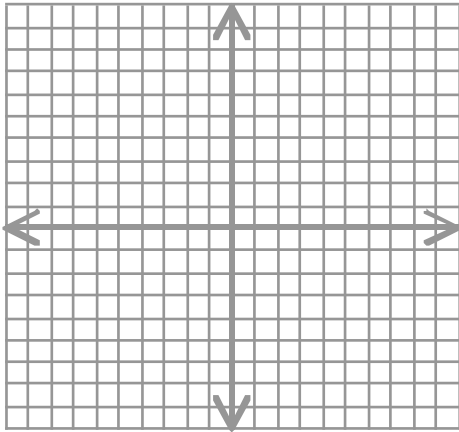
Algebra 2

3.1 Worksheet

Name _____

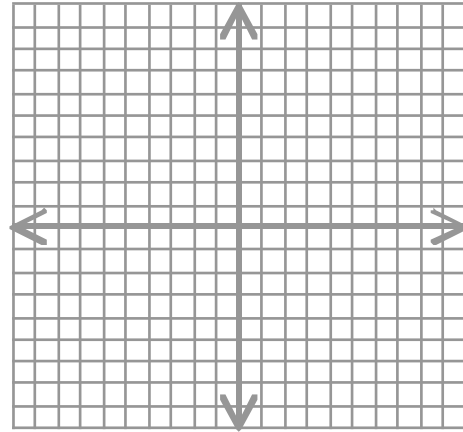
Solve the following systems graphically and state the final answer:

1. $2x + 3y = 12$
 $2x - y = 4$



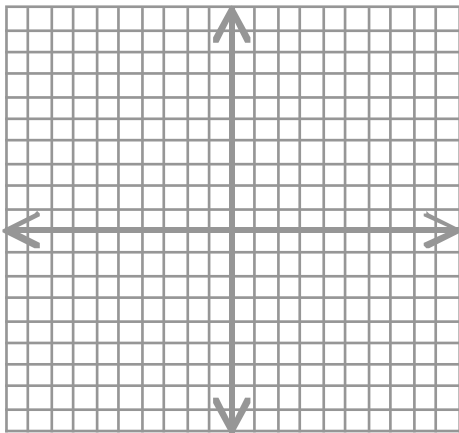
1. _____

2. $\frac{1}{2}x - y = 0$
 $\frac{1}{4}x + \frac{1}{2}y = -2$



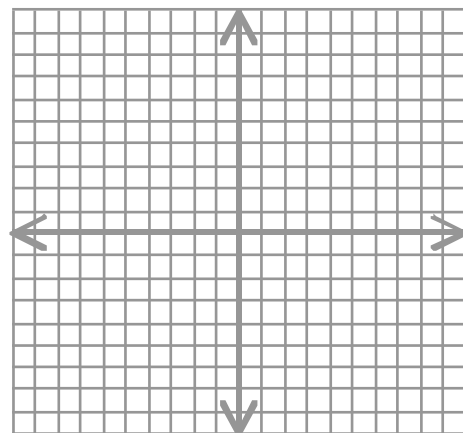
2. _____

3. $12x - 9y = 27$
 $8x - 6y = 18$



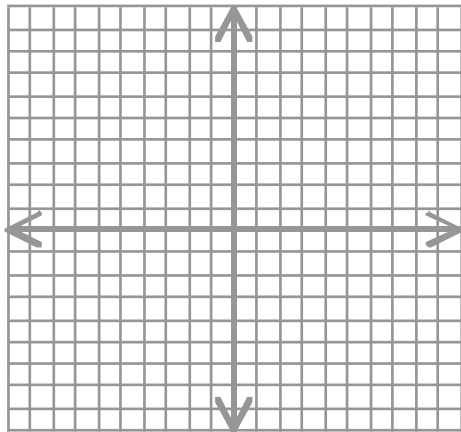
3. _____

4. $2y = y - 4$
 $3x + 2y = 4$



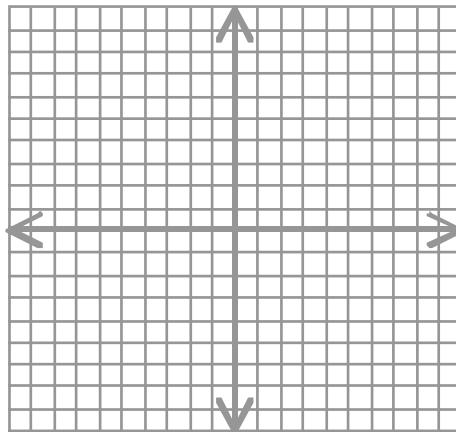
4. _____

5. $x - 2y = 0$
 $x = 2$



5. _____

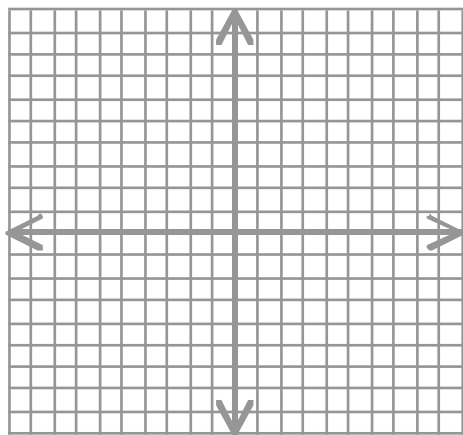
6. $3x + 3y = 18$
 $-6x - 6y = -12$



6. _____

7. At an ice cream shop, one customer pays \$10 for 2 sundaes and 2 milkshakes. A second customer pays \$16 for 2 sundaes and 4 milkshakes. How much does each sundae and milkshake cost?

- a) Write a linear system of equations to represent the cost of each customer's order.
- b) Graph the equations to solve.



- c) Check your final solution algebraically.