

Skill: Finding the Point of Intersection

Investigation 3

Moving Straight Ahead

Is each ordered pair a solution of the given system? Write *yes* or *no*.

1. $y = 6x + 12$
 $2x - y = 4$

2. $y = -3x$
 $x = 4y + \frac{1}{2}$

3. $x + 2y = 2$
 $2x + 5y = 2$

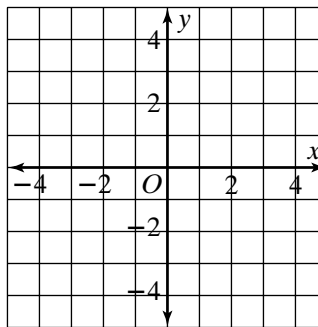
$(-4, -12)$

$(-\frac{1}{2}, \frac{3}{2})$

$(6, -2)$

4. Solve the system by graphing.
 Check your solution.

$x + y = 3$
 $x - y = -1$

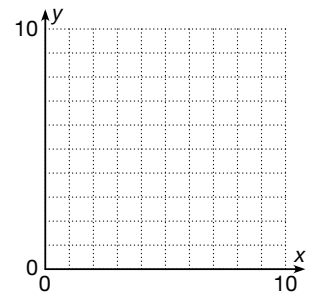


5. Tomatoes are \$0.80 per pound at Rob's Market, and \$1.20 per pound at Sal's Produce. You have a coupon for \$1.40 off at Sal's. (Assume that you buy at least \$1.40 worth of tomatoes.)

- a. Write an equation relating the cost y to the number of pounds x at each market.

Rob's:

Sal's:



- b. Use a graph to estimate the number of pounds for which the cost is the same at either store.