Name _____ Date _____ Class _____

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

$(-4, -12)$

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

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

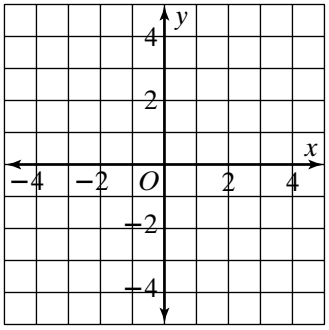
3. $x + 2y = 2$
$2x + 5y = 2$

$(6, -2)$

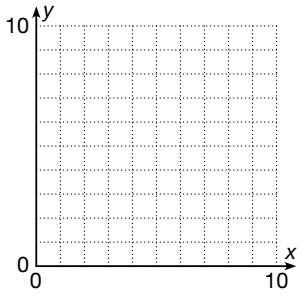
4. Solve the system by graphing. Check your solution.

$x + y = 3$

$x - y = -1$



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.