

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PER. \_\_\_\_\_

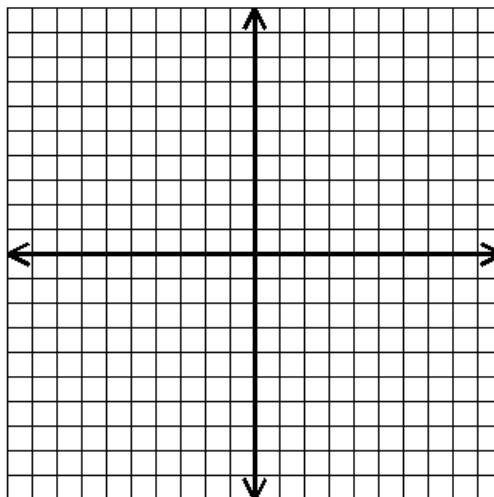
**RETEST REVIEW: SYSTEMS OF EQUATIONS**

Solve each system by the method specified.

1) Solve by graphing.

$$3x + 4y = 12$$

$$x + 2y = 4$$



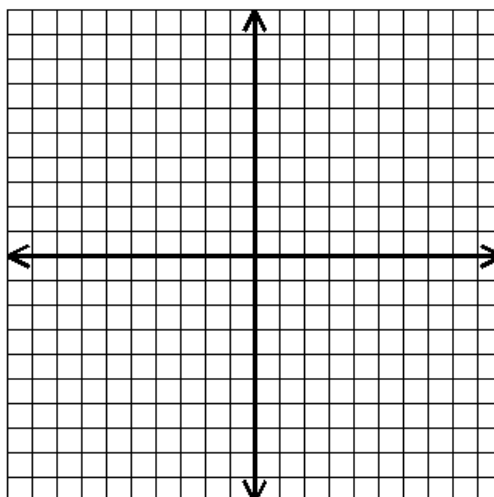
Solution: \_\_\_\_\_

2) Solve by graphing.

$$y = 3x + 4$$

and

x	y
-3	-5
-1	1
1	7
3	13



Equation (from table): \_\_\_\_\_

Solution: \_\_\_\_\_

3) Solve using matrices.

$$2x + 5y = 17$$

$$6x - 5y = -9$$

Solution: \_\_\_\_\_

4) Solve using matrices.

$$5x - 9y = -3$$

$$4x - 3y = 6$$

Solution: \_\_\_\_\_

5) Two lines have the given equations. At what point do they intersect?

$$y = 2x - 1$$

$$3x - y = -6$$

**For each word problem, set up a system of equations, and solve for the value(s) indicated.**

6) If 8 pens and 7 pencils cost \$3.37 while 5 pens and 11 pencils cost \$3.10, how much does each pen and pencil cost?

Equations: \_\_\_\_\_

\_\_\_\_\_

Solution: \_\_\_\_\_

7) Timmy has 180 marbles, some plain and some colored. If there are 32 more plain marbles than colored marbles, how many colored marbles does he have?

Equations: \_\_\_\_\_

\_\_\_\_\_

Solution: \_\_\_\_\_

8) If  $(x, -3)$  is a solution for the following system of equations, what is the value of  $x$ ?

$$4x - y = 15$$

$$3x + y = 6$$

9) Holt bought a large pizza and a liter of drink for \$11, not including tax. If the price of the pizza,  $p$ , is 5 more than 3 times the price of the drink,  $d$ , **write the system of linear equations** that could be used to find the cost of the pizza and the drink. (do not solve)

Equations: \_\_\_\_\_

\_\_\_\_\_

Answers in random order: 3 (4, 0) 74  $p + d = 11$

0.15 (-7, -15) 0.29 (3, 2) (1, 3)

$p = 3d + 5$

infinitely many solutions