

NAME _____ Test Grade: _____ Deadline: Wed, Jan 31

RETEST REVIEW: SYSTEMS OF EQUATIONS

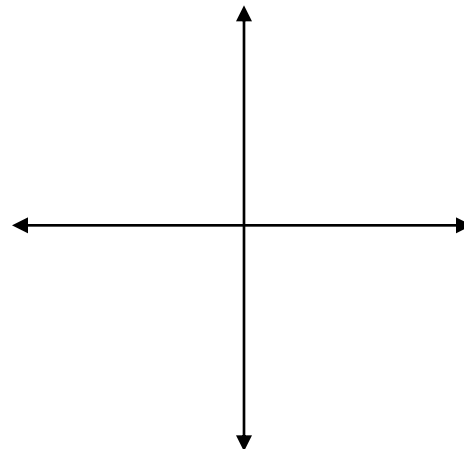
Solve each system by the method specified.

1) Solve by graphing in the calculator. Sketch the graph.

$$y = -\frac{1}{2}x + 2$$
$$3x + 4y = 12$$

$$y1 = \underline{\hspace{2cm}}$$

$$y2 = \underline{\hspace{2cm}}$$



Solution: _____

2) Solve by graphing in the calculator. Sketch the graph.

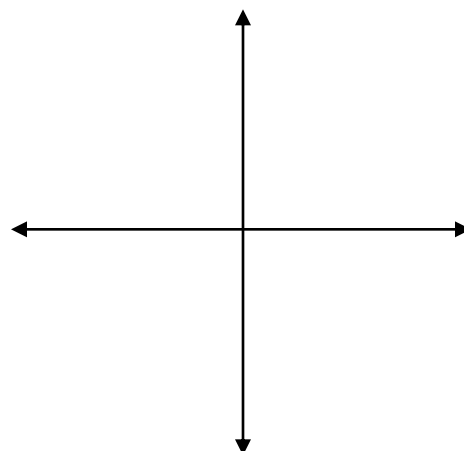
Line 1: $y = 3x + 4$

$$y1 = \underline{\hspace{2cm}}$$

Line 2:

x	y
-2	-11
-1	-8
2	1
3	4

$$y2 = \underline{\hspace{2cm}}$$



Solution: _____

3) Solve using a matrix.

$$2x + 5y = 17$$

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

Solution: _____

4) Solve using a matrix.

$$8x - 6y = 12$$

$$4x - 3y = 6$$

Solution: _____

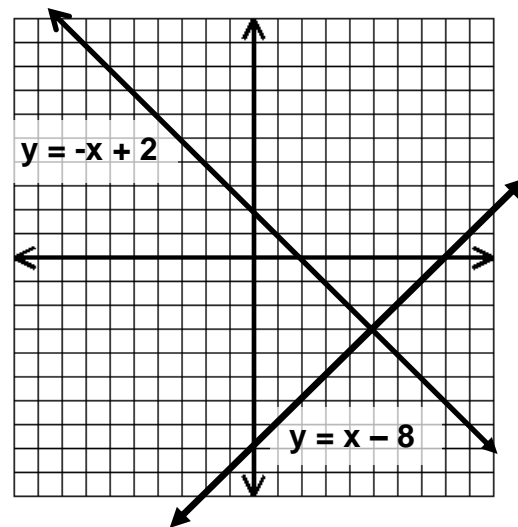
5) If $(x, -3)$ is a solution for the following system of equations, what is the value of x ?

$$\begin{aligned} 4x - y &= 15 \\ 3x + y &= 6 \end{aligned}$$

$x =$ _____

6) Which ordered pair is the solution of the system graphed below?

- A. $(2, 0)$
- B. $(8, 0)$
- C. $(-3, 5)$
- D. $(5, -3)$



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

7) 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: _____

8) A restaurant sold a total of 418 hamburgers during one day. Total hamburger sales were \$1077. Large hamburgers sold for \$3, and small hamburgers sold for \$1.50. How many large hamburgers were sold?

Equations: _____

Solution: _____

_____ 9) Holt bought a large pizza and a liter of drink for \$11, not including tax. The price of the pizza is 5 more than 3 times the price of the drink. Which system of equations can be used to find p , the price of the pizza and d , the price of the drink?

A. $p + d = 11$
 $p = 3d + 5$

C. $3p + 5d = 11$
 $p = 3d + 5$

B. $p + d = 11$
 $d = 3p + 5$

D. $3p + 5d = 11$
 $d = 3p + 5$

Answers in random order:

A	3	\$0.15	Infinitely many	No solution
D	\$0.29	(4, 0)	(1, 3)	300