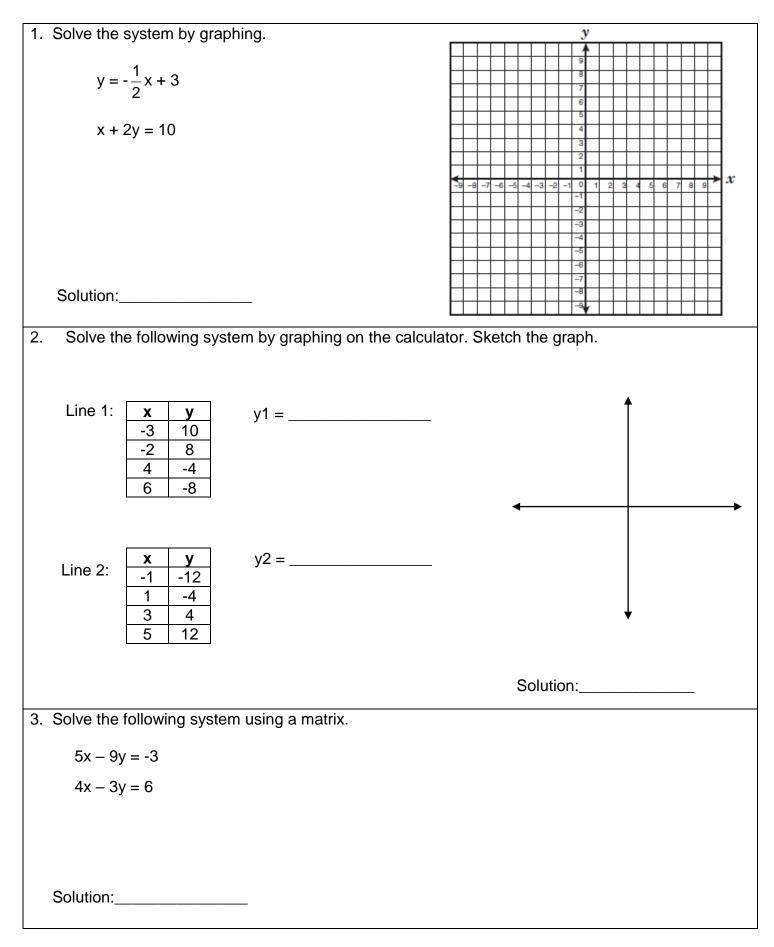

REVIEW: SYSTEMS OF EQUATIONS



Set up a system of equations, then solve using a matrix.

4. At a pet store the total cost of 8 pounds of Brand \$8.40. The total cost of 16 pounds of Brand X dog f What is the price per pound of Brand Y dog food?	d X dog food and 1 pound of Brand Y dog food is
	Equations:
Solution:	
5. A rectangle has a perimeter of 18 cm. Its length	is 5 cm more than its width Find the dimensions
	Equations:
Solution:	
6. Jimmy had \$5.25 in nickels and quarters. He hat type did he have?	ad 45 coins altogether. How many coins of each
	Equations:
Solution:	

Answer the following.

_____ 7. Elizabeth met 24 of her cousins at a family reunion. The number of male cousins was 6 less than twice the number of female cousins. If *m* represented the number of male cousins and *f* the number of female cousins, which system of equations could be used to find how many male cousins Elizabeth met?

A. $m = 2f + 6$	C. $f = 2m + 6$
m - f = 24	m - f = 24
B. $m = 2f - 6$	D. $f = 2m - 6$
m + f = 24	m + f = 24

8. A math test has 25 problems. Some are worth 2 points, and some are worth 3 points. The test is worth 60 points total. If x represents the number of 2 point problems and y represents the number of 3 point problems, which system of equations could be used to find the number how many 3 point problems are on the test?

A. $x + y = 25$	C. $x + y = 25$
3x + 2y = 60	2x + 3y = 60
B. $x + y = 60$	D. $x + y = 60$
3x + 2y = 25	2x + 3y = 25

9. Kristi made 48 cookies. The number of chocolate chip cookies she made was 3 more than 3 times as many sugar cookies. Which system of equations can be used to find how many chocolate chip cookies, *c*, and sugar cookies, *s*, Kristi made?

A. $s + c = 48$	C. $s + c = 3$
c = 3s + 3	c = 3s + 48
B. $s - c = 48$	D. $s + c = 48$
s = 3c + 3	c = 3s - 3

10. What is the solution to the system of equations below?

A. The ordered pair $\left(-\frac{1}{2}, 0\right)$ is the solution.

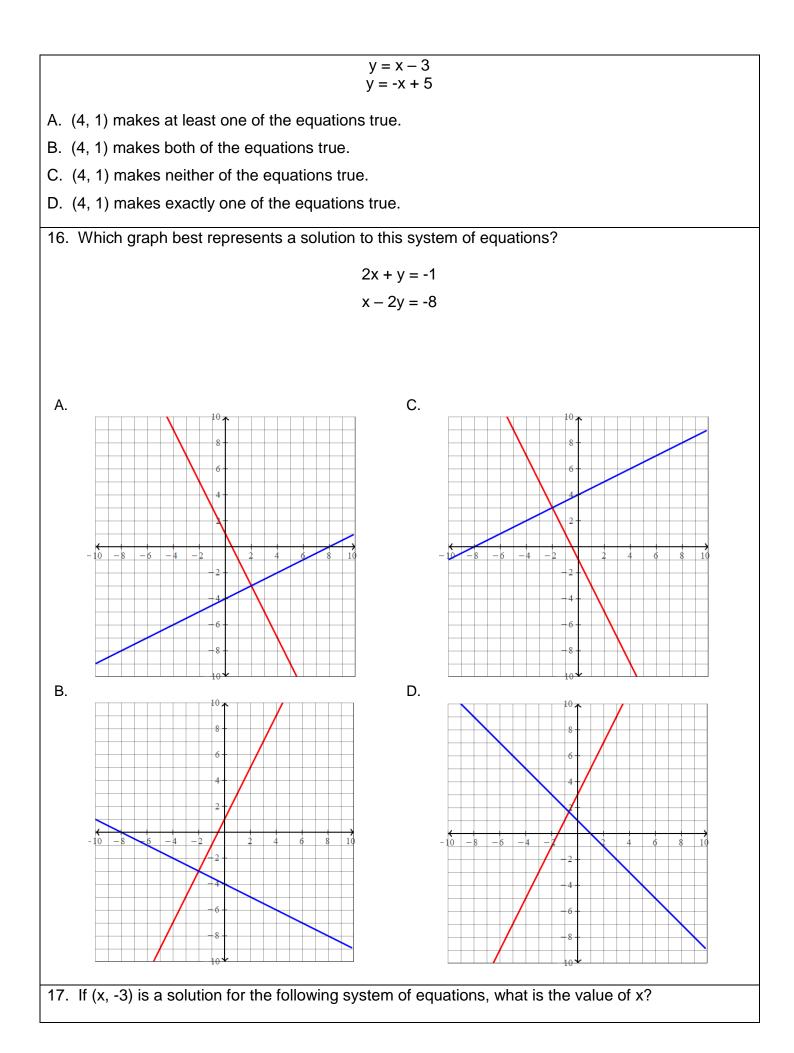
B. The ordered pair $(0, \frac{2}{7})$ is the solution.

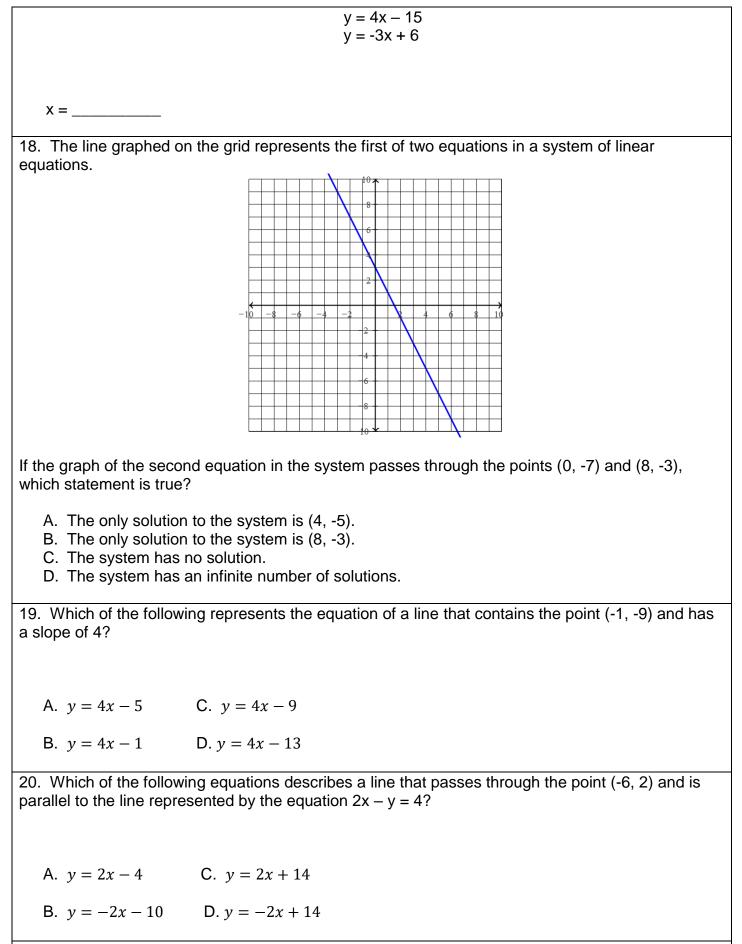
C. There are an infinite number of solutions.

D. There is no solution.

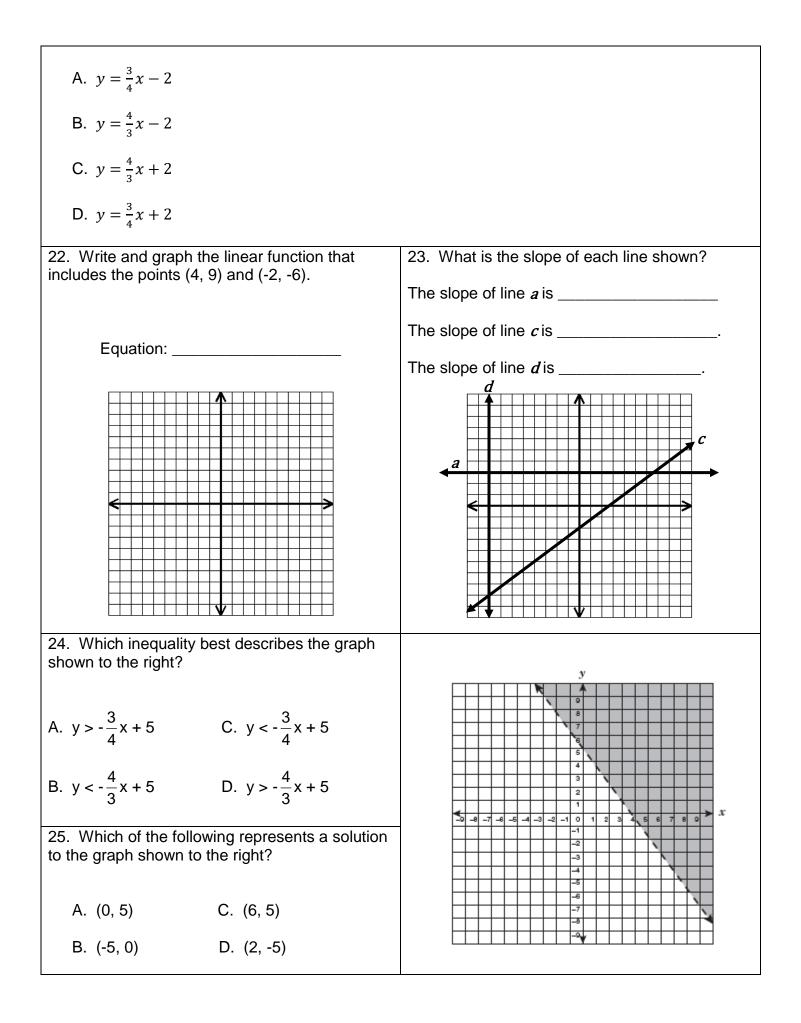
11. Two lines have the given equations. At what point do they intersect?

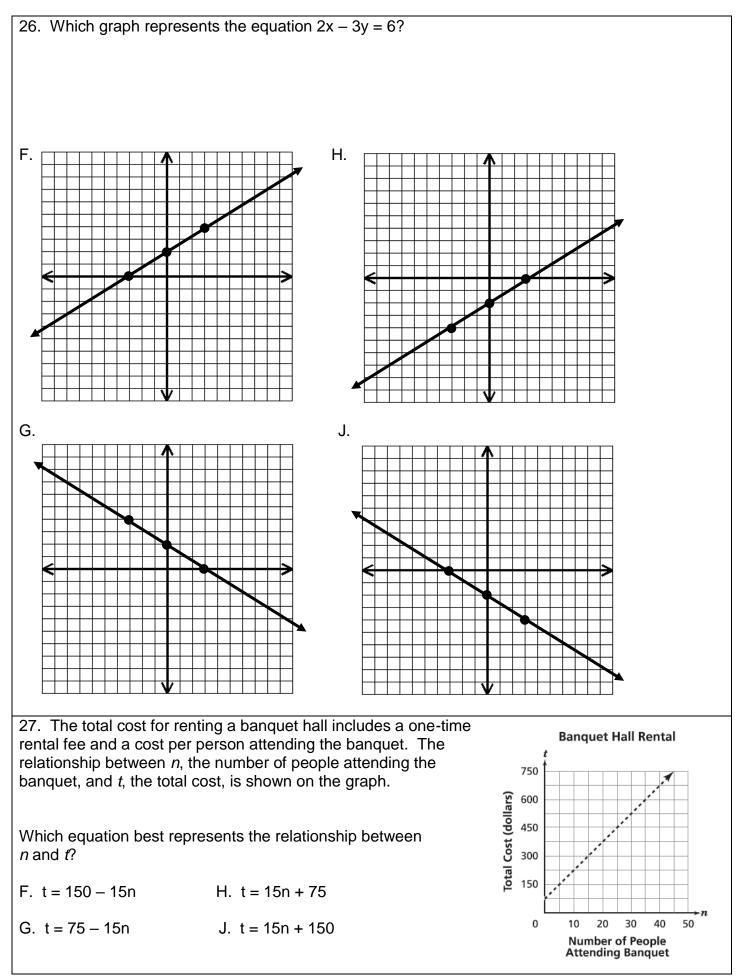
2x – y = 1	
3x - y = -6	
Solution:	
12. Solve the system by graphing.	<i>y</i>
3x - y = -4	
y = 3x + 4	x x x x x x x x x x x x x x
Solution:	
13. If $(x, 4)$ is the solution to the system of linear equatio	ns, what is the value of x?
4x + 5y = 8	
2x - 3y = -18	
X =	
14. Some values for two linear equations are shown in the	ne tables below.
	on 2 y 5 2 -4 -13
What is the solution to the system of equations represent	ted by these tables?
A. (2, -2) C. (-5, 5)	
B. (-2, -4) D. (-4, 2)	
15. What does it mean if (4, 1) is a solution of the system	given below?





21. Which of the following represents 4x - 3y + 6 = 0 in slope-intercept form?





Answers in random order:

A	С	Н	3	(-7, -15)
A	С	Н	7	(3, 2)
A	С	D	15	1.20
В	С	-3	30	$y = \frac{5}{2}x - 1$
В	С	0	$\frac{3}{4}$	no solution
В	С	2	(2, 0)	infinitely many
Study, study, study! Good luck!			undefined	

Answers in random order:

A	C	Н	3	(-7, -15)
A	С	Н	7	(3, 2)
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Study, study, study! Good luck!			undefined	

Answers in random order:

В	C	2 tudy. study! Good	(2, 0)	infinitely many undefined
В	С	0	$\frac{3}{4}$	no solution
В	С	-3	30	$y = \frac{5}{2}x - 1$
A	С	D	15	1.20
A	С	Н	7	(3, 2)
A	C	Н	3	(-7, -15)