

MasterMath

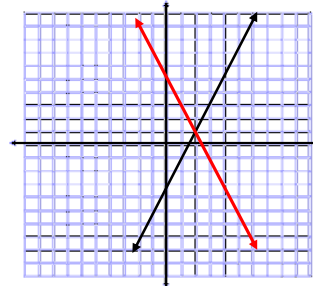
Solve Linear Systems by Graphing

Name _____
Date _____

1. Graph these equations to determine what ordered pair, if any, satisfies both equations.

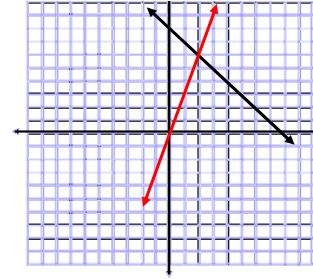
a. $y = 2x - 3$
 $y = 5 - 2x$

Ordered Pair
(2, 1)



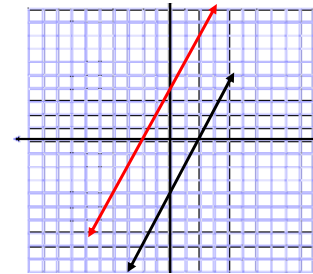
b. $x + y = 8$
 $y = 3x$

Ordered Pair
(2, 6)



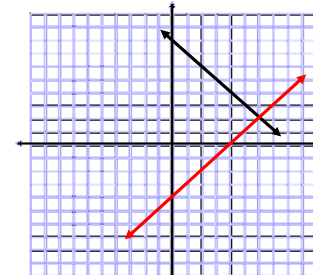
c. $y = 2x - 4$
 $y = 2x + 4$

Ordered Pair
No solutions: parallel lines



2. Write and graph 2 equations to determine the 2 numbers that satisfies this statement: the sum of two numbers is 8 and their difference is 4.

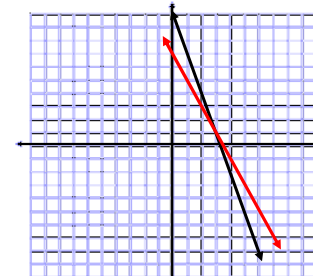
	Equation 1	Equation 2	Ordered Pair
Any form	$x + y = 8$	$x - y = 4$	(6, 2)
Slope-Intercept form	$y = -x + 8$	$y = x - 4$	



3. On the first day Joel sold 3 adult tickets and 1 child ticket for a total of \$10. On the second day, he sold 6 adult tickets and 3 child tickets for a total of \$18. What was the price of the adult tickets and the child tickets?

Hint: let x = cost of adult tickets and y = cost of child tickets.

	Equation 1	Equation 2	Adult Tickets
Any form	$3x + y = 10$	$6x + 3y = 18$	\$3
Slope-Intercept form	$y = -3x + 10$	$y = -2x + 3$	Child Tickets
			\$1



4. I have six coins in my pocket. They are all either pennies or nickels. The change in my pocket totals 18¢. How many pennies and how many nickels do I have?

Hint: let x = number of nickels and y = number of pennies.

	Equation 1	Equation 2	nickels
Any form	$x + y = 6$	$5x + y = 18$	3
Slope-Intercept form	$y = -x + 6$	$y = -5x + 18$	pennies
			3

