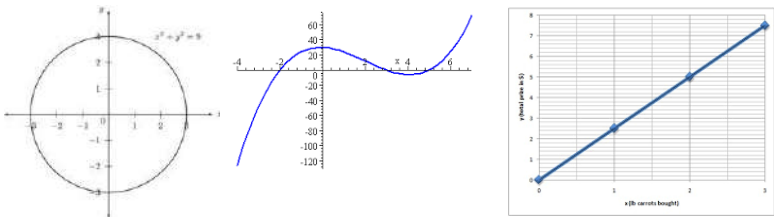
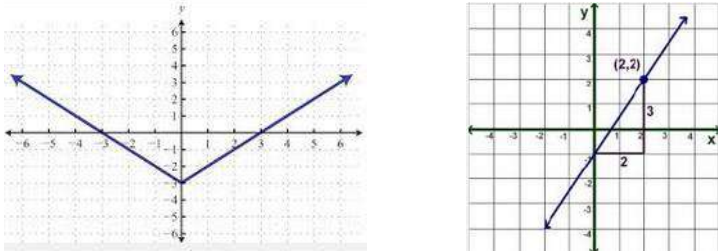
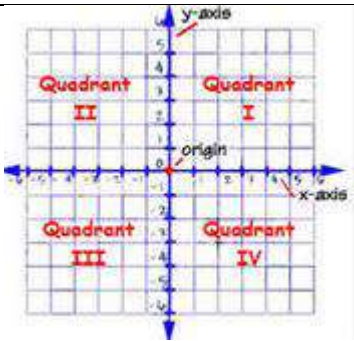


Algebra I BM 2 Study Guide

You need to be able to:

Decide if a graph is a function or not.	
Write the domain and range given a graph	
Write an inequality given a word problem	Spencer is ordering a flower arrangement with roses and carnations. He doesn't want to spend more than \$27 on the arrangement. Roses cost \$3 each and carnations cost \$1 each.
Rearrange formulas and equations to solve for different variables. (Literal equations)	$y = rv$, solve for v $2\pi r = C$, solve for r
Use the properties to explain steps while solving equations	Solve $3x = 15$ and give the property used Solve $8x - 5 = 19$ and give the properties used
Tell which quadrant a solution will be in on the coordinate plane	
Solve multi-step equations with a variable on both sides	$5(x + 4) = 6x - 5$ $4x + 3 = -5x + 21$

Decide if a table is a function or not	Not a Function <table> <tr><th>X</th><th>Y</th></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>1</td><td>5</td></tr> <tr><td>3</td><td>8</td></tr> <tr><td>4</td><td>4</td></tr> <tr><td>5</td><td>10</td></tr> </table> Function <table> <tr><th>x</th><th>y</th></tr> <tr><td>-2</td><td>-2</td></tr> <tr><td>-1</td><td>2</td></tr> <tr><td>0</td><td>6</td></tr> <tr><td>1</td><td>10</td></tr> <tr><td>2</td><td>14</td></tr> </table>	X	Y	1	2	2	4	1	5	3	8	4	4	5	10	x	y	-2	-2	-1	2	0	6	1	10	2	14
X	Y																										
1	2																										
2	4																										
1	5																										
3	8																										
4	4																										
5	10																										
x	y																										
-2	-2																										
-1	2																										
0	6																										
1	10																										
2	14																										
Write a system of inequalities from a graph																											
Solve system of equations word problems	For a wedding, Shereda bought several dozen roses and several dozen carnations. The roses cost \$15 per dozen, and the carnations cost \$8 per dozen. Shereda bought a total of 17 dozen flowers and paid a total of \$192. How many roses did she buy?																										
Solve arithmetic sequence word problem	Rebecca is on page 15 of her book and reads 3 pages every night. Janet is on page 20 of the same book and reads 2 pages every night. How long will it take Rebecca to be further in the book than Janet?																										
Identify graphs of systems of equations as one solution, no solution and infinitely many solutions																											
Find the slope of a line																											