	Unit 5: Review			
	<ol> <li>Of the following points, which is in the 3<sup>rd</sup> quadrant?</li> <li>(4, -9), (-4, -9), (4, 9), (-4, 9)</li> </ol>	2. Plot the point (8, 2) on a coordinate plane and show its new position after being translated 4 units down.		
	3 Plot the point (-6, 3) on a	4 Plot the point (2 -5) on a coordinate		
	coordinate plane and show its new position after being translated 2 units to the right.	plane and show its new position after being reflected across the x-axis.		
	5. Plot the point (2, -5) on a coordinate plane and show its new position after being reflected across the y-axis.	6. If g(x) = 2x <sup>2</sup> + x + 1, find g(-3)		

7. Find the domain and range of the relation represented by this mapping. Is it a function? Why?



**8.** Find the domain and range of the relation represented by this table. Is it a function? Why?

х	У
5	-2
6	-2
7	17.5
2	0

9. Find the domain and range of the relation represented by this set of ordered pairs. Is it a function? Why?

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{ (3, 7), (6, -2), (11, 9), (6, -7) }
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10. If the function f(x) = 3x + 9 has the domain, {-1, 0, 3, 7}, what is its range?

11. If f(x) = -2x - 11 and g(x) = 7 - x, find the value of 3f(8) - 2g(6).

12. Bob has already sold \$200 worth of fruit from his fruit stand. If he continues selling at the rate of \$80 per hour, write a function that will predict his total up to any later time.

13. After how much more time will Bob have sold \$420 worth of fruit?	14. What will be Bob's total sales after another 8 hours?

15. Just as it comes out of the oven, a hot pie is placed in a refrigerator. Sketch a graph of the temperature of the pie over the next several hours.

Which is the dependent variable?

Which is the independent variable?

The \_\_\_\_\_ is a function of \_\_\_\_\_ and the functional notation is \_\_\_\_\_