Math 112 Written Homework: Functions	Student Name:		
	Instructor: Taryn Laird		
	Math 112 Section:		
<u>Directions</u> : Show all work, and answer each question the entences. All graphs should be drawn accurately on this			
 A salesperson is paid a weekly salary of \$800, plu Express her weekly income in terms of the weekly 			
Is this a function? How do you know?			
What is an appropriate domain?			

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11 0	on of its speed, v , is given by the formula $d=kv^2$, ne specific car and conditions of the road. Suppose a et to stop.

Find the constant *k*.

Use the information from above to approximate the stopping distance for this car traveling at 80 mph.

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3. Test market data shows that changing the price of a product changes the demand (the number of units that people are will to purchase). For a certain product, the test market data indicates the following:

Purchase price (dollars)	1	2	3	4
Demand (# of units)	45,000	40,000	30,000	15,000

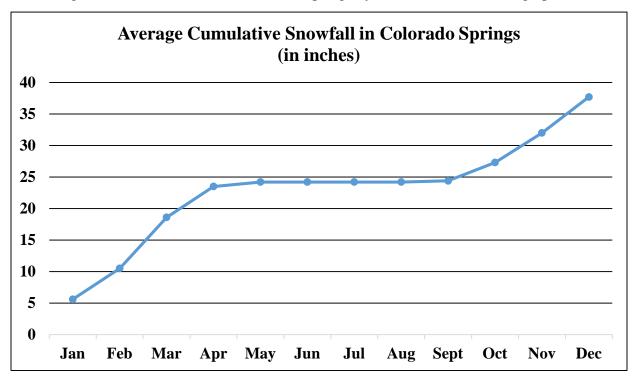
Does this table indicate that purchase price is a function of demand? Why or why not?

Does this table indicate that demand is a function of purchase price? Why or why not?

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4. The average cumulative snowfall in Colorado Springs by month is shown in the graph below.



Does this graph represent cumulative snowfall as a function of the month? Why or why not?

What is the average annual cumulative snowfall in Colorado Springs?

What is the approximate average snowfall in December?

During which month is average snowfall the greatest? How do you know?