4-4.notebook October 30, 2019

Journal Entry:

Show a relationship to something that you buy with the total cost to purchase in a graph. Describe the function, write the function rule and graph it. Is it a linear function or a nonlinear function.

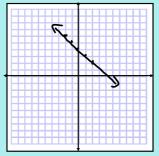
Section 4-4 Graphing a Function Rule

Student will be able to graph equations that represent functions.

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When trying to graph a function, a table can help you find what the graph of the function looks like.





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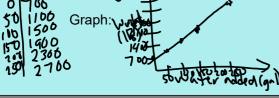
Sometimes, like in real-world problems, you will have to come up with appropriate intervals for the units on the axes.

- -the interval represents the same change of value
- -if all values are nonnegative, show only the first quadrant

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The function rule W = 8g + 700 represents the total weight, W in pounds, of a spa that contains g gallons of water. What is a reasonable graph of the function rule, given that the capacity of the spa is 250 gal? What is the weight of the spa when it is empty?

W = $\frac{1}{2}$



Some graphs only contain isolated points; they are called discrete graphs.

Why use a discrete graph?

Examples:

You contain isolated points; they are called discrete graph?

Examples:

Some graphs are of a line that is unbroken, called a continuous graph.

Why use a continuous graph?

Examples:

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Identifying Continuous and Discrete Graphs

-You buy eggs for \$1.75 per dozen.

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-The amount of gas you use to drive your car.

Of gas

-The number of people riding the roller coaster and the weight capacity.

Of people

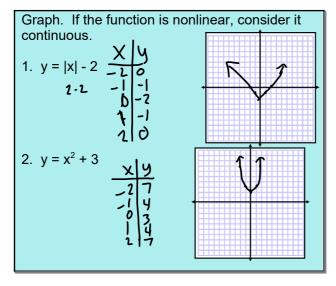
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Graph each and decide it the function in continuous or discrete.

1. The amount of water in a wading pool, in gallons, depend on the amount of time in minutes the pool has been filling, w = 3t.

2. The cost for baseball tickets depends on the number of tickets bought, C = 16n.

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Hwk: pg. 257 -259 #12, 16, 24, 28, 29, 31, 34 - 40 evens

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