

### Algebra 1 - Unit 1 Representing Relationships Cheat Sheet by anjuscha via cheatography.com/125991/cs/25370/

# Compare to explain or show the similarities or differences between items or ideas scenario an imagined or projected sequence of events constant a number or a variable whose value does not change quantity measurable attribute of a thing

or event

rate

## Labeling Section 1 Georgian Constant Constant Constant Georgian Constant Time (minutes)

a ratio comparing quantities

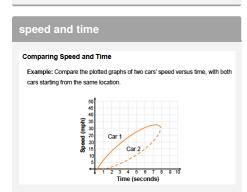
measured in different units

# Example finding angle Example: For his workout, Miguel ran uphill for a while, reached the top, rested a few minutes to take a drink of water, and then ran back down the hill. Compare the graphs below and determine which one accurately represents Miguel's workout. Circle the correct graph.

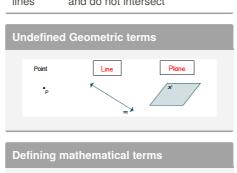
When Miguel runs back down the hill, that means dista

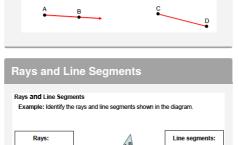
distance needs to go up

He's traveling additional distance. If he's traveling additional distance, the



### **Defining terms** part of a line that has one endpoint and extends indefinitely in one direction a part of a line that has two line segment endpoints and a specific length lines that intersect to form right, perpendicular or 90-degree, angles lines parallel lines that lie in the same plane lines and do not intersect





Draw and label CD.

DF

FE

BA

 $\overline{\text{CD}}$ 

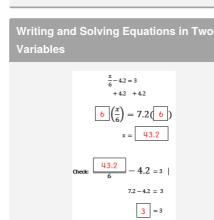
and label AB

DF

ΕĎ

ĒĒ

 $\overrightarrow{\text{CD}}$ 

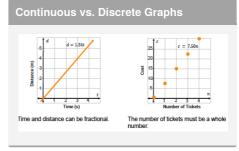


### Published 23rd November, 2020. Last updated 23rd November, 2020. Page 1 of 2.

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Writing and Graphing Equations in Two

Variables	
assume	to accept as true without proof
viable	capable of working succes- sfully; practical, realistic, usable, possible
continuous graph	a graph in the coordinate plane made up of connected ines or curves with no breaks
coordinate plane	a graph that has a finite number of data points
ordered pair	the pair of numbers, given in a specific order used to locate a point a coordinate plane



Introduction to Functions				
range	the set of output values corresponding to the domain values			
dependent variable	the variable in a function that represents the output values; the second coordinate in the ordered pairs			



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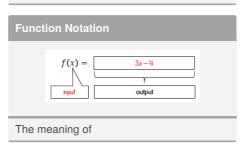


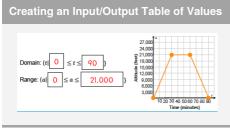
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Introduction to Functions (cont)			
function	a relation in which each element of the domain is mapped to (paired with) exactly one element of the range		
domain	the set of input values for which the function is defined		
relation	a set of ordered pairs		
indepe- ndent variable	the variable in a function that represents the input values; the first coordinate in the ordered pairs		

### Definitions discrete a graph that has a finite or limited number of data points graph a notation that traditionally function notation replaces the dependent variable in a function with f(xx), where ffrepresents the valueof the dependent variable at a given independent value, xxa graph in the coordinate continuous graph plane made up of connected lines or curves with no breaks

## Creating an Input/Output Table of Values Create a table of input and output values for the equation y = 5 + 3x. Inputs Outputs x = -2 y = 5 + 3(-2) = -1 -2 -1 2 x = -1 y = 5 + 3(-1) = 2 0 5 x = 1 y = 5 + 3(0) = 5 0 5 x = 1 y = 5 + 3(1) = 8 1 8 x = 2 y = 5 + 3(2) = 11 2 11







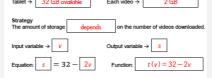
Write a notation yourself

Domain is x-axis, while Range is y-xis

Is it a function? Do the vertical line t

Write a fund	tion that models the relationship between storage left and number of
videos dowr	lloaded.
Question	Write a function that models the relationship between storage left and number of videos downloaded.

est		
the		



### If any vertical line passes through no more than one point, then the graph represents a function. Not a Function

t(5) = 32 - 2(5)t(5) = 32 - 10t(5) = 22



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