

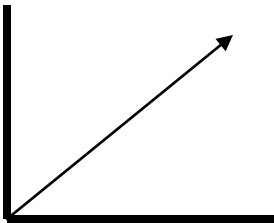
Name _____

Date _____

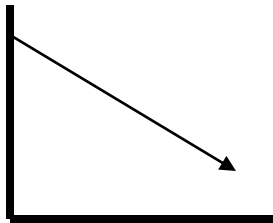
Student Expectations A.1.E Notes

Linear functions, like scatter plots, can be represented on a graph by positive, negative or constant lines.

Positive/Increasing Line



Negative/Decreasing Line



Constant Line



To determine what a graph will look like, you must consider the situation and decide which of the above lines *best* fits the scenario.

Consider the following examples.

Example 1.

Question: *Which graph would best represent the temperature of a cake after it is taken out of the oven?*

Answer: A negative/decreasing graph because as time passes, the cake would cool off and therefore the temperature of the cake would decrease.

Example 2.

Question: *Which graph would best represent a car traveling at steady rate of 60mph on a road trip?*

Answer: A constant graph because the car is not changing its speed. It is constantly traveling at 60mph.

Example 3.

Question: *Which graph would best represent the height of a tree once it has been planted in the ground?*

Answer: A positive/increasing graph because you would expect the tree to grow taller after it is planted in the ground.