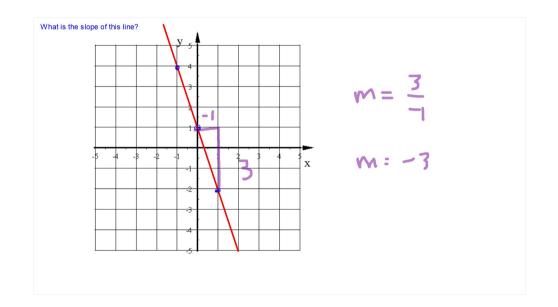
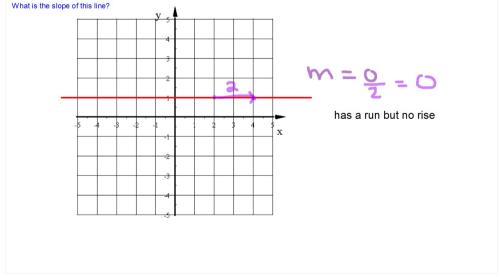
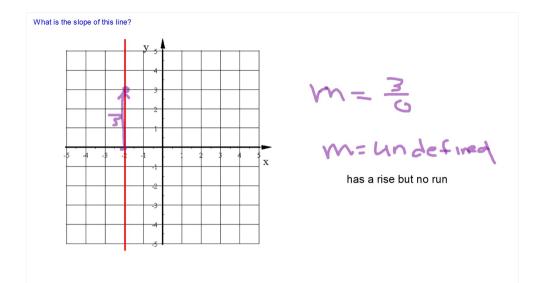
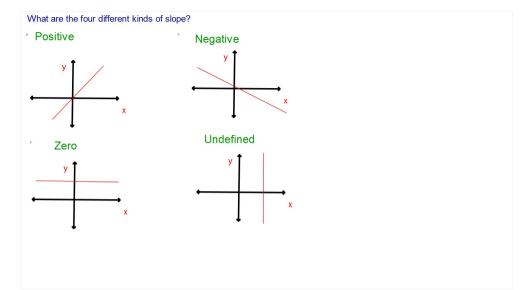
Sec 6-1: Slope and Rate of Change

Slope =
$$\frac{\text{Rise}}{\text{Run}}$$
 = $\frac{\text{Vertical Change}}{\text{Horizontal Change}}$ = $\frac{\Delta y}{\Delta x}$ = $\frac{y_2 - y_1}{x_2 - x_1}$









The larger the slope, the steeper the line

larger pos or larger neg.

The closer the slope is to zero the flatter the line is.

Put the slopes in order from steepest to flatest.

Take absolute value then put the numbers in descending order

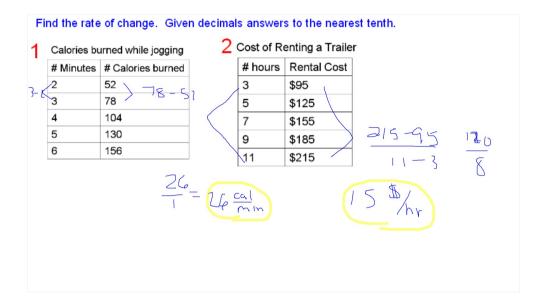
Rate of Change = Change in the Dependent Variable

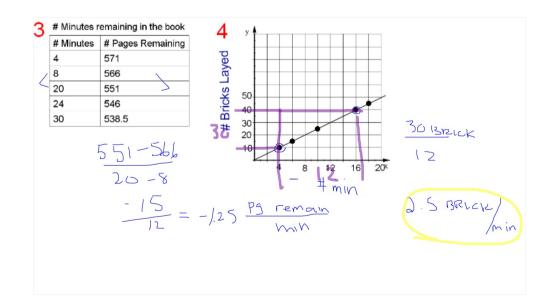
Change in the Independent Variable

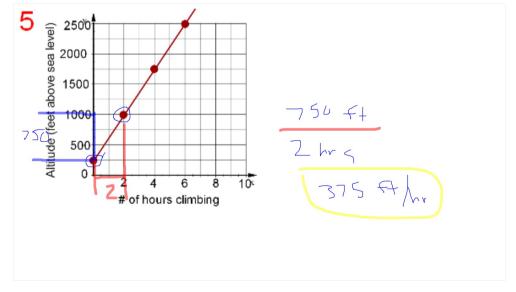
Rate of Change = Y

Slope with units

Since the phrase Rate of Change applies when using "REAL" data you'll be expected to give units with your answer.







If the rate of change is constant then what will the graph of the data look like?

A linear function