Vocabulary:

MOST of the time, Slope with words time is

• Rate of Change:

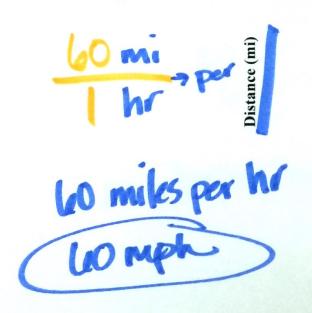
Constant:

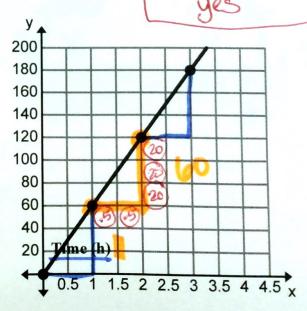
Stays the same all the time.

• Proportionality:

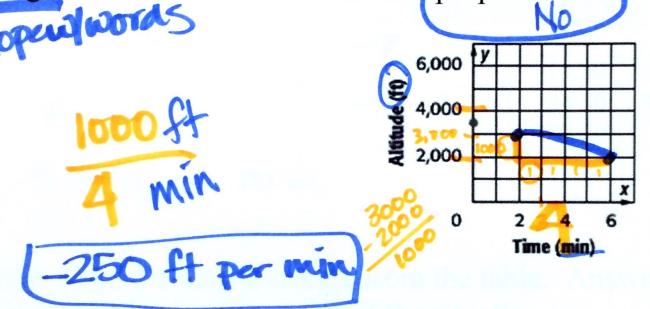
1) Slope stays the same for all points AND 2) the line goes through (0,0)

Ex. 1: The graph represents the distance traveled while driving on a highway. Find the constant rate of change. Determine if the situation is proportional.





Ex. 2: The altitude y of a certain airplane after a certain number of minutes x is shown in the graph. Is the relationship linear? If so, find the constant rate of change. Determine if the situation is proportional?



Ex. 3: Find the rate of change from the table.

Answers must include units. Determine if the situation is proportional.

proportional. Not		aU .	204	
11-	3	X	y	130
170-110		umber of ansactions	Balance (
2 -9	-0310	3	170	10 3 296.
		6	140	140 = 23.3
\$-10 per to	ransactions	y 9	110	12.22
ic per i	43	12	80	-30

Ex. 4: Find the rate of change from the table. Answers must include units. Determine if the situation is proportional.

Number of Movies

7 24.50 $\frac{17.5}{-5.00}$ $\frac{17.5}{5}$ $\frac{2}{5}$ $\frac{7.00}{5}$ $\frac{17.5}{5}$ $\frac{3.5}{5}$ $\frac{17.50}{8}$ $\frac{17.5}{5}$ $\frac{3.5}{8}$ $\frac{24.50}{8}$ $\frac{24.50}{8}$

Ex. 5: Find the rate of change from the table. Answers must include units. Determine if the situation is proportional.

| Number of Rides | Number of Rides | Admission | Hee | Number of Rides | Number of Rides | Admission | Hee | Number of Rides | Number of

Ex. 6: Josh made \$15 after 2 hours of babysitting. He worked for a total of 6 hours and made \$45. Find his rate of change. Determine if the situation is

rate of change. Determine if the situation is proportional. Who will be a situ