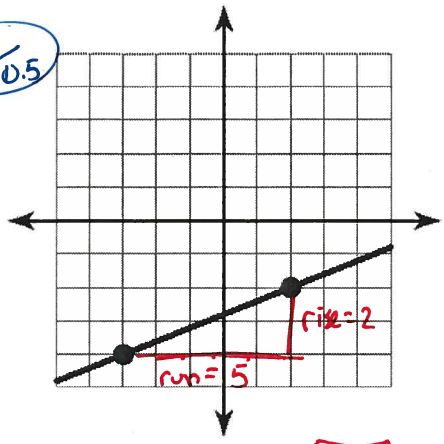
KEY

First Name:_____ Last Name:_____

L31 – FQ – 6.5 Slope

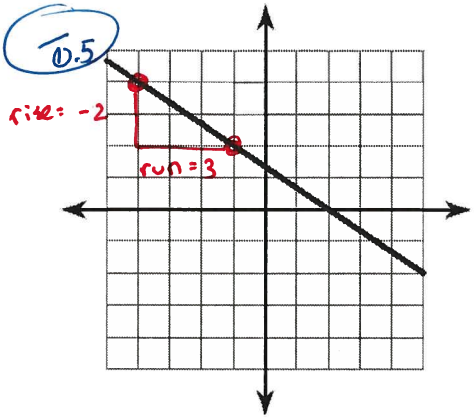
Q1: Find the slope of each line. Indicate the rise and the run.

/0.5



$m = \frac{rise}{run} = \frac{2}{5}$

/0.5



$m = \frac{rise}{run} = \frac{-2}{3}$

Q2: Find the slope of the line through each pair of points:

/0.5 a) (20,8) , (9,16)
x_1 y_1 x_2 y_2

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{16 - 8}{9 - 20} = \frac{8}{-11} = \boxed{\frac{-8}{11}}$

/0.5 b) (19,-2) , (-11,10)
x_1 y_1 x_2 y_2

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{10 - (-2)}{-11 - 19} = \frac{12}{-30} = \boxed{-\frac{2}{5}}$

/2 Q3: Garrett has been pedal biking across Canada. On day 5 he has travelled a total of 400 km. On day 22 he has travelled a total of 1760km. Determine the number of kilometers Garrett travels each day.

Distance $f(x)$ depends on day x

x	f(x)
5	400
22	1760

→ (5,400) (22,1760)
x_1 y_1 x_2 y_2

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1760 - 400}{22 - 5} = \frac{1360}{17} = \boxed{80 \text{ km per day.}}$

MARKING:

Beginning	0 - 1.5
Progressing	2 - 2.5
Competent	3 - 3.5
Exemplary	4