land In – Slope 2

Name: _____   **Total:** _____ /9

1. For the following graph, answer the questions below:

Car Rental Rates

Number of Days
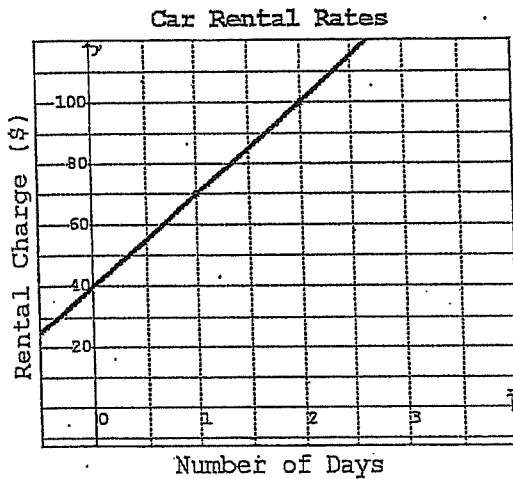
a) Determine the dependent and independent variables of the relation.

b) Determine the slope of the line.

c) What is the meaning of the value of the slope?

d) Write an equation using letters for the relation.

e) Using the equation of the line, find the total charge of the rental for 3 days.

f) Using the equation of the line, find the number of days the car was used, if the total charge was $200.

Hand-In – Application

Name: _____   **Total:** _____11

The LSRCSS is planning a band trip to Minneapolis. There are two different travel agencies, each offering a different price. Travel agency A will charge the school $400 plus a cost of $50 per student. Travel agency B will charge the team $250 plus a cost of $100 per student.

     a) Identify the independent and dependent variables.

     b) Create a table of values for each team (based on the first 5 students for each).

     c) Graph both Agency A and Agency B on the following chart.

     d) Create an equation of the line for both Agency A and Agency B.
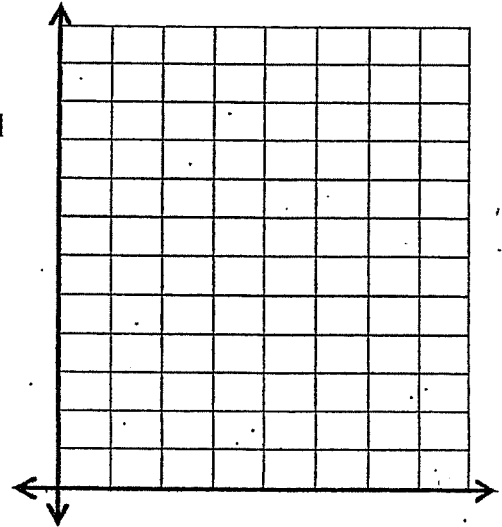
     e) If there were 3 students participating in the trip, which agency would have the lower cost? **Explain.**

     f) If there were 20 students participating in the trip, which agency would have the lower cost? **Explain.**

     g) Where do the lines cross – what is the cost? What does this mean?