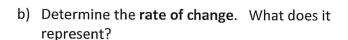
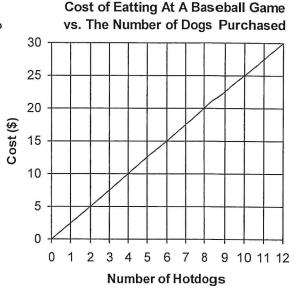
- 1. The graph below represents the cost to buy hotdogs at a baseball game. The total cost depends on the number of hotdogs that a person buys.
  - a) Does the graph represent direct or partial variation? How do you know?





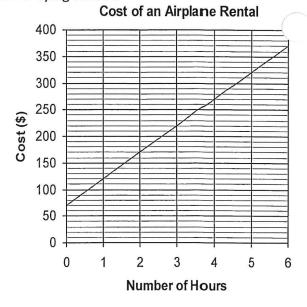
- 1. Find 2 spots on the line that go through a crosshair (plot points on them)
- 2. Draw a right triangle connecting those 2
- 3. Determine the rise (height) and the run (length) of the triangle.

4. The rate = 
$$\frac{rise}{run}$$



- c) What equation models the cost, C, in terms of the number of hotdogs purchased, n?
- d) A coach buys hotdogs for his team. Use your equation to determine how much it would cost to buy 14 hotdogs.
- e) If the coach has \$40, use your equation to determine how many hotdogs he could buy.

- 2. The graph below represents the cost to rent an airplane from a flying school.
  - a) Is this an example of direct or partial variation? How do you know?
  - b) What is the fixed cost? What does it represent?



c) What is the rate of change? What does it represent?

- d) What equation models the cost, C, in terms of the hours, h?
- e) Use your equation to determine how much it costs to rent a plan for 10 hours.
- f) Use your equation to determine how many hours you can rent an airplane for if you have \$1000 to spend.