

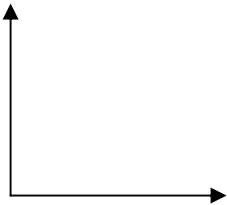
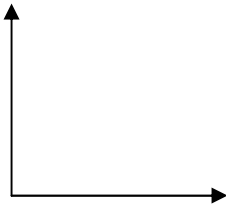
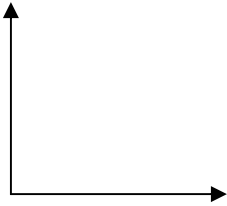
## PLANNING A TRIP: JOURNAL

**Background:** When Mr. Cruise wants to make comparisons before he chooses the best company, he prefers to see graphs of data as well as an explanation. Tom and Penelope have been gathering data and would like you to draw some graphs for their dad with some explanations.

### PHASE 3: Last Minute Details

After you have sketched the graph describe the properties of your sketch. [linear, non-linear, positive correlation, negative correlation, set of parallel lines, set of lines through the same point, horizontal line, vertical line, combination of line segments and/or curves]

#### Model:

<p><b>HOME PROTECTION SERVICES:</b>                  Plan A: \$5 per day                  Plan B: \$50 for signs plus \$5 per day                  Plan C: \$100 lifetime registration with signs plus \$5 per day</p> <p style="text-align: center;">Description:</p> 	<p><b>POOL CLEANING SERVICES:</b>                  Company A: \$50 1<sup>st</sup> two weeks plus \$25/week after                  Company B: \$50 1<sup>st</sup> two weeks plus \$30/week after                  Company C: \$50 1<sup>st</sup> two weeks plus \$20/week after</p> <p style="text-align: center;">Description:</p> 
<p>(The Cruises are considering using a marine battery to run a TV in their van for the drive to Vancouver).</p> <p><b>RELIABLE BATTERY COMPANY:</b>                  Marine batteries maintain their voltage extremely well for the first three weeks of constant use, but then the voltage drops off quickly and the battery will likely be dead after about 4 weeks.</p> <p style="text-align: center;">Description:</p> 	

**Conclude:** (Answer on the reverse side of this sheet, you may use a sketch as part of your explanation)

1. As the Cruises are driving to Vancouver, describe what type of relationship would model the distance they are from Vancouver vs the number of hours they have been driving from Newmarket? Justify your reasoning.
2. Suppose that the Cruises have saved \$5000 to spend on their trip to Vancouver, describe what type of relationship would model the amount of money that they have left vs the number of days they have been on holidays? Justify your reasoning.

	Level 1	Level 2	Level 3	Level 4
Communication	-communicates using some descriptors and partial justification, perhaps with assistance	-communicates using some descriptors and justification	-communicates using appropriate descriptors and justification	-communicates using appropriate descriptors, justification and insight