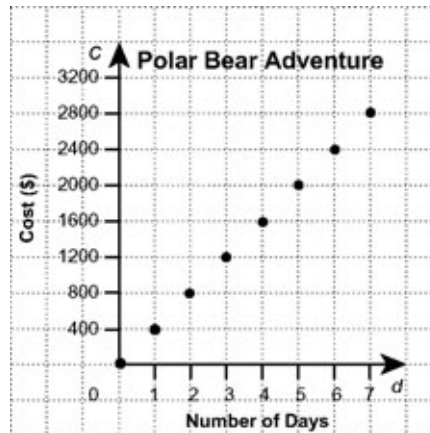


## Section 9.1 Math Link

This worksheet will help you with the Math Link on page 341.

You are going on a polar bear adventure tour.  
The graph shows the cost of the trip.



- Describe any patterns that you see in the graph.

- Complete the first two columns of the following table of values by referring to the graph. The first two rows have been completed as an example.

| Number of Days, $d$ | Cost, $C$ (\$) | Cost of Deluxe Tour (\$) |
|---------------------|----------------|--------------------------|
| 1                   | 400            | $400 + 300 = 700$        |
| 2                   | 800            | $800 + 300 = 1100$       |
|                     |                |                          |
|                     |                |                          |
|                     |                |                          |
|                     |                |                          |
|                     |                |                          |
|                     |                |                          |

- If the pattern continues, what is the cost of a tour for eight days?
  - Enter this value in the table.
- Suppose it is possible to upgrade to better accommodations for a one-time fee of \$300 plus the regular \$400 per day. Enter the cost per day for the deluxe tour into the third column of the table. The first two rows have been completed as an example.
- How are the data for the two costs similar?
  - How are the data for the two costs different?