## **Classifying Parts of Curves**

1. Use the graphs A through F and insert the letter choice in the blank. Some parts may have more than one answer.

| A B C D E F                                                         |
|---------------------------------------------------------------------|
| a) Which graphs are increasing?                                     |
| b) Which graphs are decreasing?                                     |
| c) Which graphs are concave up?                                     |
| d) Which graphs are concave down?                                   |
| e) Which graphs have <b>no</b> concavity?                           |
| f) Which graph could model the following?                           |
| i. In the last quarter of 2009, the economy lost jobs less quickly. |
| ii. United States economic growth accelerates.                      |
| iii. The revenue is climbing at a steady rate                       |
| iv. Greenland ice loss is accelerating.                             |
| v. The rise in the profits is slowing.                              |



ii. On what open intervals of t is the graph concave down?

2. The graph of a company's profit P(t) in dollars at month t is shown.