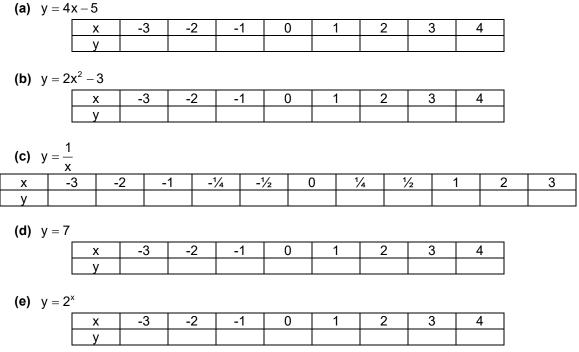
## **Graphing and Graph Interpretation**

- Матн 123
- 2. Complete the given table and sketch a graph of the function.



- **3.** C(x) is the percentage change in the number of dairy cattle on farms in the United States, x years after 1985.
  - (a) What are the units for the quantity measured on the horizontal axis?
  - (b) What are the units for the quantity measured on the vertical axis?
  - (c) Can the graph appear to the left of the vertical axis? Explain why or why not.
  - (d) Can the graph appear below the horizontal axis? Explain why or why not.
  - (e) Can the graph be used to determine the number of dairy cattle on farms in the United States? Explain why or why not.

For each function,

- (a) explain why or why not the graph of the function could appear below the horizontal axis;
- (b) explain why or why not the graph of the function could appear to the left of the vertical axis;
- (c) state the units for the horizontal axis; and
- (d) state the units for the vertical axis.
  - **4.** G(x) is your grade on an exam out of 100 points after x hours of study.
  - 5. C(x) is the change in your grade on an exam out of 100 points after x hours of study.
  - **6.** P(x) is the percentage change in your grade on an exam out of 100 points after x hours of study.
  - 7. R(x) is the rate of change of your grade on an exam out of 100 points after x hours of study.
  - **8.** N(x) is the number of employees at the *Doors International Corporation* when the CEO's annual salary is x hundred thousand dollars.