## Exercises and Problems for Section 0.0

1. A function can be represented by a

   (a) Verbal description
   (b) Table
   (c) Graph
   (d) Formula
   (e) All of the above

2. Bethann is keeping track of the water she drinks each day this week. She makes Table 1 to help her organize the data. Which best describes the relationship between the day of the week and the amount of water Bethann drank?

   (a) $d = f(w)$
   (b) $w = f(d)$
   (c) Both $d = f(w)$ and $w = f(d)$

   **Table 1**

   | Day, $d$ | Ounces of water drunk, $w$ |
   |---|---|
   | Monday | 63 |
   | Tuesday | 65 |
   | Wednesday | 59 |
   | Thursday | 60 |
   | Friday | 65 |
   | Saturday | 62 |
   | Sunday | 58 |

3. If $f(x) = 5$ then $f(2) = 10$

   (a) True
   (b) False

4. If $7 = f(-2)$, what point could *not* be a point on the graph of the function $f$?

   (a) $(7, -2)$
   (b) $(3, 7)$
   (c) $(-2, 5)$
   (d) $(-1, 5)$