Chapter 1
Functions and Mathematical Models
Section 1-1 Functions

Relation: A set of points   **Domain**: the x coordinates   **Range**: the y coordinates

A **function** is a set of ordered pairs (points) where each x has only one y value (*no x can repeat)

1. Draw 2 graphs that are functions and 2 graphs that are not functions.

2. The time it takes you to get home from school is related to how fast you drive. Sketch a reasonable graph showing how time and speed are related. Tell the domain and range of the function.

Find the x-intercept(s) and y-intercept of the function. (use algebra or graphing calculator)

3. $f(x) = x^2 - 2x - 8$