Definition of a Function

1. For each situation decide (i) is *A* and function of *B*? (ii) is *B* a function of *A*?

   a. *A* is the height above ground of a passenger on a Ferris Wheel *B* minutes into the ride.

      i) yes   ii) no

   b. *A* is the number of years after the year 2000 and *B* is the population of Easthampton.

      i) no   ii) yes

   c. *A* is the temperature of a room in Fahrenheit degrees and *B* is the temperature of the room at the same time in Celsius degrees.

      i) yes   ii) yes

   d. *A* is the area of a square whose side has length *B*.

      i) yes   ii) yes

2. For each table of values decide if (i) *A* is a function of *B* or (ii)*B* a function of *A* or (iii) neither.

   a.

A	3	6	2	-8	10
B	5	6	7	8	2
i and ii. A is a function of B and B is a function of A					

   b.

A	1	2	3	4	5
B	1	2	3	4	5
i and ii. A is a function of B and B is a function of A					

   c.

A	2	3	4	5	6
B	5	-5	5	-5	5
ii. B is a function of A but A is not a function of B					

   d.

A	1	2	3	2	1
B	-5	-6	-7	-8	-2
ii. A is a function of B but B is not a function of A					