Sample Skeletal Outline

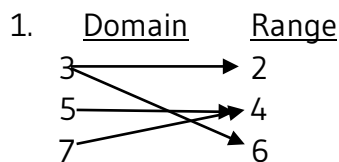## College Algebra: Functions and Their Graphs

Relation vs. Function

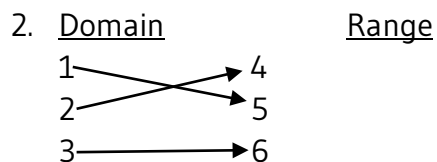_____: a correspondence between two sets; a set of ordered pairs.

_____: each *x*-element (_____) corresponds to *one and only one y*-element (_____).

Sample Problems: Relations or Functions?

1. Domain   Range

   This is an example of a _____.

2. Domain   Range

   This is an example of a _____.

An additional note:

x is also called the _____ and is a(n) _____ variable because it can be any number in the _____.

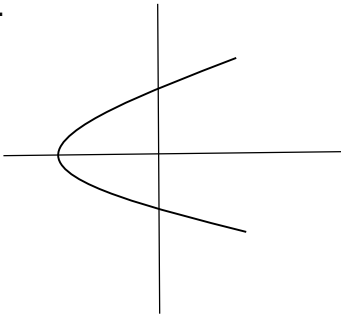*y* is also called the _____ and is a(n)_____variable because its value depends on *x*.

Graphs of Relations and Functions

The _____ test can show you if the curve of a graph is a function or not. Remember, a function can have only one output for each input.
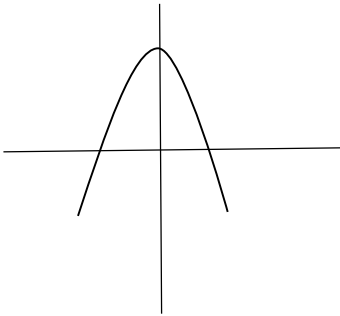
Sample Problems: Relations or Functions?

1.

This is a graph of a _____.

2.

This is a graph of a _____.