

### ***Intermediate Algebra Skill***

#### **Determining the Existence of the Inverse: Given a set of Ordered Pairs**

Determine whether or not the given function is one-to-one:

$$1) f = \{(1,3), (2,5), (-1,-1), (-2,-3)\}$$

$$2) g = \{(9,5), (2,10), (-1,10), (-2,-2)\}$$

$$3) F = \{(2,3), (3,6), (4,3)\}$$

$$4) G = \{(-1,0), (2,8), (0,2)\}$$

$$5) H = \{(1,2), (3,4), (5,6)\}$$

$$6) J = \{(-1,1), (-2,1), (-3,1)\}$$

$$7) Q = \{(0,1), (5,3), (1/2,2)\}$$

$$8) T = \{(-1/2, 1/2), (-1/2, 1), (1, 1/3)\}$$

$$9) S = \{(0,1), (1,1), (2,3)\}$$

$$10) F = \{(1,5), (1,6), (5,4)\}$$

**Answers to Determining the Existence of the Inverse: Given a set of Ordered Pairs**

1) 1-1

2) not 1-1

3) not 1-1

4) 1-1

5) 1-1

6) not 1-1

7) 1-1

8) 1-1

9) not 1-1

10) 1-1