

## ***Intermediate Algebra Skill***

### **Identifying Functions and Relations: Given the Equation**

Decide whether the given relation defines a function or not.

1)  $y = 3x - 6$

2)  $x = 9 - 2y$

3)  $2x - y = 3$

4)  $-20x + 3y = -60$

5)  $y + x^2 = 1$

6)  $x^2 - 2y = 0$

7)  $y^2 = 3 - x$

8)  $x - y^2 = 1$

9)  $x^2 = 2y^3$

10)  $3x^4 = y^5$

11)  $y + |x| = 5$

12)  $x = |y - 1| + 4$

13)  $x^2 + y^2 = 16$

14)  $y = \sqrt{2x - 3}$

15)  $x = \frac{4}{y^2 - 1}$

## **Answers to Identifying Functions and Relations: Given Equation**

- 1) Function
- 2) Function
- 3) Function
- 4) Function
- 5) Function
- 6) Function
- 7) Not a Function
- 8) Not a Function
- 9) Function
- 10) Function
- 11) Function
- 12) Not a Function
- 13) Not a Function
- 14) Function
- 15) Not a Function