## CHAPTER 1

# **Functions: Characteristics and Properties**

#### Getting Started, p. 2

1. 
$$f(x) = x^2 + 3x - 4$$
  
a)  $f(2) = (2)^2 + 3(2) - 4$   
 $= 4 + 6 - 4$   
 $= 6$   
b)  $f(-1) = (-1)^2 + 3(-1) - 4$   
 $= 1 - 3 - 4$ 

$$e) f\left(\frac{1}{4}\right) = \left(\frac{1}{4}\right)^2 + 3\left(\frac{1}{4}\right) - 4$$
$$= \frac{1}{16} + \frac{3}{4} - 4$$

d) 
$$f(a + 1) = (a + 1)^2 + 3(a + 1) - 4$$
  
 $= (a + 1)(a + 1) + 3a + 3 - 4$   
 $= a^2 + 2a + 1 + 3a - 1$   
 $= a^2 + 5a$ 

2. a) 
$$x^2 + 2xy + y^2 = (x + y)(x + y)$$
  
b)  $5x^2 - 16x + 3 = 5x^2 - 15x - 1x + 3$   
=  $5x(x - 3) + (-1)(x - 3)$ 

$$= (5x - 1)(x - 3)$$

$$= (5x - 1)(x - 3)$$

$$= (x + y)^{2} - (8)^{2}$$

$$= (x + y + 8)(x + y - 8)$$

d) 
$$ax + bx - ay - by = x(a + b) + (-y)(a + b)$$
  
=  $(a + b)(x - y)$ 

 a) horizontal translation 3 units to the right, vertical translation 2 units up;



 b) horizontal translation 1 unit to the right, vertical translation 2 units up;



 e) horizontal stretch by a factor of 2, vertical stretch by a factor of 2, reflection across the x-axis;



 d) horizontal compression by a factor of \(\frac{1}{2}\), vertical stretch by a factor of 2, reflection across the x-axis;



4. a) D = 
$$\{x \in \mathbb{R} | -2 \le x \le 2\}$$
,

$$R = \{y \in \mathbb{R} | 0 \le y \le 2\}$$

b) D = 
$$\{x \in \mathbb{R}\}$$
, R =  $\{y \in \mathbb{R} | y \ge -19\}$ 

c) D = 
$$\{x \in \mathbb{R} | x \neq 0\}$$
, R =  $\{y \in \mathbb{R} | y \neq 0\}$ 

d) D = 
$$\{x \in \mathbb{R}\}$$
, R =  $\{y \in \mathbb{R} | -3 \le y \le 3\}$ 

e) 
$$D = \{x \in \mathbb{R}\}, R = \{y \in \mathbb{R} | y > 0\}$$

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