

# 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)  $f(-1) = (-1)^2 + 3(-1) - 4$   
 $= 1 - 3 - 4$   
 $= -6$

c)  $f\left(\frac{1}{4}\right) = \left(\frac{1}{4}\right)^2 + 3\left(\frac{1}{4}\right) - 4$   
 $= \frac{1}{16} + \frac{3}{4} - 4$   
 $= -\frac{51}{16}$

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

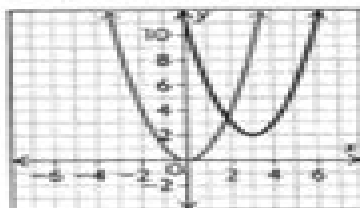
2. a)  $x^2 + 2xy + y^2 = (x+y)(x+y)$

b)  $5x^2 - 16x + 3 = 5x^2 - 15x - 1x + 3$   
 $= 5x(x-3) + (-1)(x-3)$   
 $= (5x-1)(x-3)$

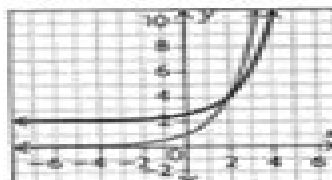
c)  $(x+y)^2 - 64 = (x+y)^2 - (8)^2$   
 $= (x+y+8)(x+y-8)$

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

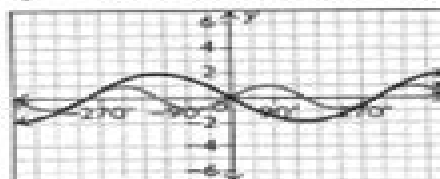
3. a) horizontal translation 3 units to the right,  
vertical translation 2 units up;



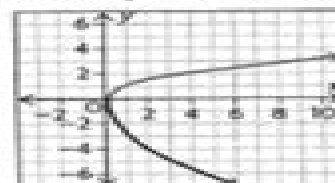
b) horizontal translation 1 unit to the right, vertical  
translation 2 units up;



c) 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)  $D = \{x \in \mathbb{R} \mid -2 \leq x \leq 2\}$ ,

$R = \{y \in \mathbb{R} \mid 0 \leq y \leq 2\}$

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

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

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

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

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**Huangqi Zhang**



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