CHAPTER 1

Functions: Characteristics and Properties

Getting Started, p. 2

1.
$$f(x) = x^{3} + 3x - 4$$

a) $f(2) = (2)^{2} + 3(2) - 4$
 $= 4 + 6 - 4$
 $= 6$
b) $f(-1) = (-1)^{3} + 3(-1) - 4$
 $= 1 - 3 - 4$

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

= $\frac{1}{16} + \frac{3}{4} - 4$
= $-\frac{51}{16}$

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

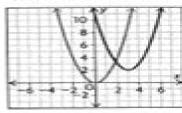
c)
$$(x + y)^2 - 64 = (x + y)^2 - (8)^2$$

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

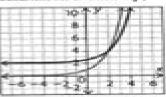
d)
$$ax + bx - ay - by = x(a + b) + (-y)(a + b)$$

= $(a + b)(x - y)$

3, a) borizontal translation 3 units to the right. vertical translation 2 units up:



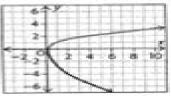
 b) horizontal translation 1 unit to the right, vertical translation 2 units up;



 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 ½, 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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M Woodhall

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