

# Homework Examples 1

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## 1 Chapter 1 Functions

Page 17, Numbers 21 and 24

21)

$$f(-2) = 4 - 2(-2), f = 8$$

$$f(-1) = 4 - 2(-1), f = 6$$

$$f(0) = 4 - 2(0), f = 4$$

$$f(1) = 4 - 2(1), f = 2$$

$$f(2) = 4 - 2(2), f = 0$$

24)

$$f(-2) = 6(-2)^2 - 7(-2) + 4, f = 162$$

$$f(-1) = 6(-1)^2 - 7(-1) + 4, f = 47$$

$$f(0) = 6(0)^2 - 7(0) + 4, f = 4$$

$$f(1) = 6(1)^2 - 7(1) + 4, f = 33$$

$$f(2) = 6(2)^2 - 7(2) + 4, f = 134$$

36)

$$f = -2^2 + (-2) + 3, f = 5$$

$$f = 4^2 + 4 + 3, f = 23$$

$$a) 5 + 23 = 28$$

$$b) 5 - 23 = -18$$

43)

$$(X - 3)^2 + (Y - 9)^2 = 6^2$$

10)

$$f(x) = 5 - \sqrt{10 - 2x}$$

20)

$$f(x) = 4x - 9 \text{ if } X \text{ is less than } 0 \quad f(x) = 4x - 18 \text{ if } x \text{ greater than or equal to } 0$$

$$f(-1) = -13$$

$$f(0) = -18$$

$$f(2) = -10$$

$$f(4) = -2$$