

099 § 3.2 II #s 56, 60, 68, 74, 76

#s 55-62 Let  $f(x) = 3x + 3$ ,  $g(x) = 4x^2 - 6x + 3$   
and  $h(x) = 5x^2 - 7$ . Find the following.

(56)  $f(-1) = 3(-1) + 3 = -3 + 3 = \boxed{0 = f(-1)}$

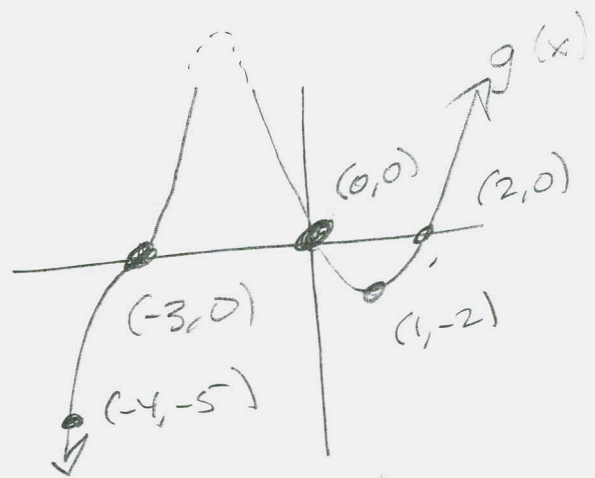
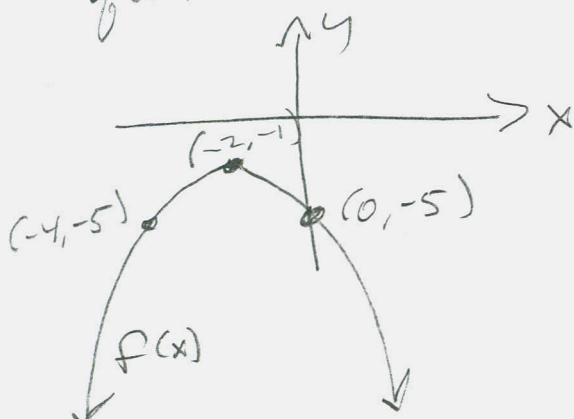
(60)  $g(1) = 4(1)^2 - 6(1) + 3 = 4 - 6 + 3 = \boxed{1 = g(1)}$

#s 63-70 Given the following functions,  
find the indicated values.

(68)  $h(x) = 7 \implies$   
 $h(7) = 7$ ,  $h(542) = 7$ ,  $h(-\frac{3}{4}) = 7$   
(horizontal line)

#s 71-82

Use the graphs below to answer the  
questions.



(74) If  $g(-2) = 8$ , then the corresponding  
ordered pair is  $\boxed{(-2, 8)}$

(76)  $f(-2) = \boxed{-1}$

099  $\{3, 3\}$  #s 4, 8, 14, 24, 28, 48, 54

#s 1-8 Graph each linear function

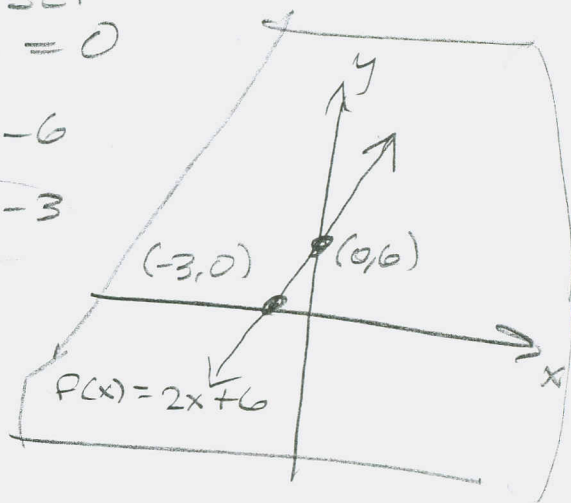
(4)  $f(x) = 2x + 6$

x	y = f(x)
0	6
-3	0

SET  $f(x) = 2x + 6 = 0$

$$2x = -6$$

$$x = -3$$



(8)  $f(x) = \frac{1}{3}x - 2$

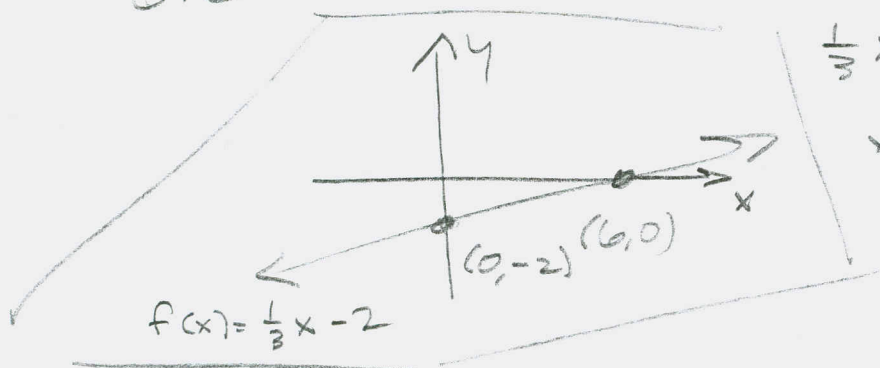
x	y
0	-2
6	0

$$f(0) = -2 \rightarrow (0, -2)$$

$$f(x) = 0 \rightarrow \frac{1}{3}x - 2 = 0$$

$$\frac{1}{3}x = 2$$

$$x = 6 \rightarrow (6, 0)$$



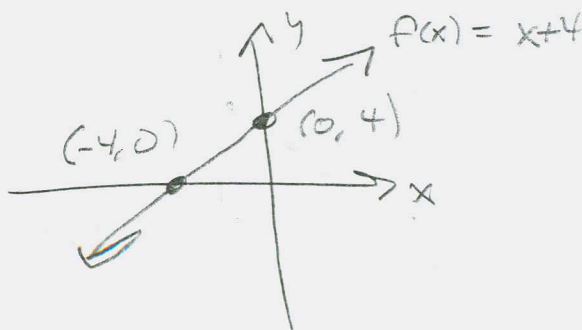
#s 13-20 Graph each linear function by finding x- and y-intercepts. Then write each equation using function notation.

(14)  $x - y = -4$

$$-y = -x - 4$$

$$y = x + 4$$

$$f(x) = x + 4$$



x	y
0	4
-4	0

$$-y = -4 \rightarrow y = 4$$

$$x = -4$$