

Pg 59

12) Not a function  
(-1 in the domain repeats)

13) Function  
(No x value repeats)

18) Function  
(No x value repeats)

19) Function  
(No x value repeats)

20) Not a function  
(multiple x values repeat)

21) Function  
(No x value repeats)

Pg 68

20)  $3x - y = -2$

21)  $5x - 6y = 38$

22)  $3x + 5y = -12$

28)  $y = \frac{-5}{2}x$

29)  $y = \frac{-4}{3}x - 1$

30)  $y = x + 4$

★ Use point slope form  $y - y_1 = m(x - x_1)$  and change to either standard form or slope intercept form.

Pg 82

20) Window:

X: 0 to 800 by 80

Y: 0 to 50 by 5

Line:  $y = .0714x - 9.268$

b. 14,39

(2nd - calc - value - 330)

14.4 (+ trace)

c. 200 cal is closer to 5g, not 10g.

27) Window

X: 0 to 2700 by 250

Y: 0 to 5500 by 800

$y = 1.889x + 61,997$

b. \$3806 to \$3860

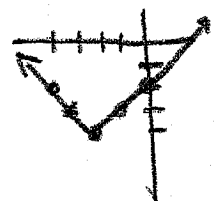
c.  $\approx \$1372$

d. No, expenditure would be predicted at  $\approx \$4800$

Pg 88

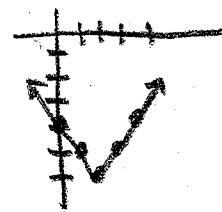
10)

x	y
-4	-2
-3	-3
-2	-4
-1	-3
0	-2



25)

x	y
0	-4
1	-5
2	-6
3	-5
4	-4



Pg 127

51)  $(-235, -5.8)$

55)  $(1, 2)$

Pg 153

1)  $(4, 2, -3)$

2)  $(0, 2, -3)$

20) A = # of seats in sec A

$A + B + C = 49,000$

B = # of seats in sec B

$25A + 20B + 15C = 1,052,000$

C = # of seats in sec C

$A = B + C$

$(24,500, 14,400, 10,100)$

21) N = # of nickels (50)

D = # of dimes (10)

Q = # of quarters (15)

$N + D + Q = 75$

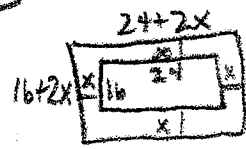
$N = 5D$  or  $N \div 5 = D$

$.05N + .10D + .25Q = 7.25$  or

$5N + 10D + 25Q = 725$

Pg 267

35) X = width



$(24 + 2x)(16 + 2x) = 24 \cdot 16 + 276$

$(x = 3)$

65a)  $t = \frac{-80}{2(-16)} = 2.5 \text{ sec}$

$h(2.5) = -16(2.5)^2 + 80(2.5)$

$h(2.5) = 100 \text{ ft}$