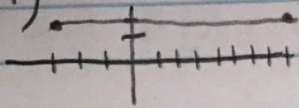


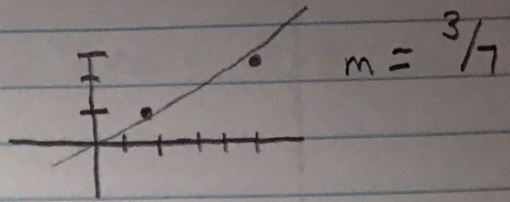
Pg 82

#1)



slope = 0

#5)



#9)  $y + 1 = \frac{1}{4}(x - 2)$

$y = \frac{1}{4}x - 1\frac{1}{2}$

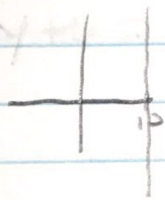
x	y
0	-1 1/2
4	-1 1/2
-4	-2 1/2

#11)  $y + 5 = -\frac{3}{2}(x - 6)$

$y = -\frac{3}{2}x - 5$

x	y
0	-5
2	-8
-2	-2

#15)



$x = 10$

#17)  $m = \frac{-1 + 1}{4 - 2} = 0$

$y + 1 = 0(x - 2)$

$y = -1$

#29)  $(2, 170,000)$   $(3, 195,000)$

$m = \frac{25}{1} = 25,000$

4th: \$220,000

#31)  $5x - 4y = 8$

$-4y = -5x + 8$

$y = \frac{5}{4}x - 2$

a)  $y + 2 = \frac{5}{4}(x - 3)$

$y = \frac{5}{4}x - \frac{23}{4}$

b)  $y + 2 = -\frac{4}{5}(x - 3)$

$y = -\frac{4}{5}x + \frac{2}{5}$

#35)  $16x^2 - y^2 = 0$

$y = \pm \sqrt{16x^2}$

NOT a function

#43)  $f(x) = x^2 + 1$

a)  $f(1) = 1^2 + 1 = 2$

b)  $f(-3) = (-3)^2 + 1 = 10$

c)  $f(b^3) = (b^3)^2 + 1 = b^6 + 1$

d)  $f(x-1) = (x-1)^2 + 1 = x^2 - 2x + 2$

# 47)  $f(x) = \frac{x-1}{x+2}$  Domain = all reals  $x \neq -2$

# 49)  $f(x) = \sqrt{25-x^2}$

Domain:

$$25 - x^2 \geq 0$$

$$-x^2 \geq -25$$

$$x^2 \leq 25$$

$$x \leq 5, -5$$

$$-5 \leq x \leq 5$$

# 51)  $C = 5.25x + 17,5000$

$$P = (8.43 - 5.25)x - 17,500$$

$$3.18x - 17,500$$