Answers from Workbook:

P.24

Act 1

- a) f(x) =60
- b) Yes
- c) 1. See teacher
  - 2. Horizontal half-line

d) when x varies from 10 to 20:

$$a = \underline{Y2 - Y1} = \underline{60 - 60} = \underline{0} = 0 \text{ slope}$$

X2 – X1 20-10 10

## #1.

- a) \$600
- b) 0
- c) dom p = [0,24] and ran p = {600} \*\*\* notice the brace or curly brackets ... not an interval but rather to show you the number set is simply one number y=b and in theis case y = 600.

## p.27

#3. a) y=10x

## b) f is of direct variation

c)

Х	0	2	4	6
У	0	20	40	60

d) Yes, 10.

e) come see the teacher for answer

#4. a) -0.12 l/km

b) A decreasing situation, since the rate of change -0.12 is negative.

c) The initial value is 72. It represents the quantity of gas in the tank at the beginning of the trip.

- d) 30 liters
- e) 1. 600 km
- 2. The zero of function f
- f) 475 km

## p.28

#6. A) y = 0.4x - 32 000

- b) 1. 80 000. The store must make \$80 000 in sales to have a net revenue of zero.
- 2. -3200. The initial value corresponds to the fixed monthly cost of \$32 000.
- c) Come see you teacher for answer
- d) The function is increasing, since the rate of change is positive.
- e) 1. [0,200 000] 2. [-32 000, 48 000]
- f) 1. [0, 80 000] 2. [80 000,200 000]