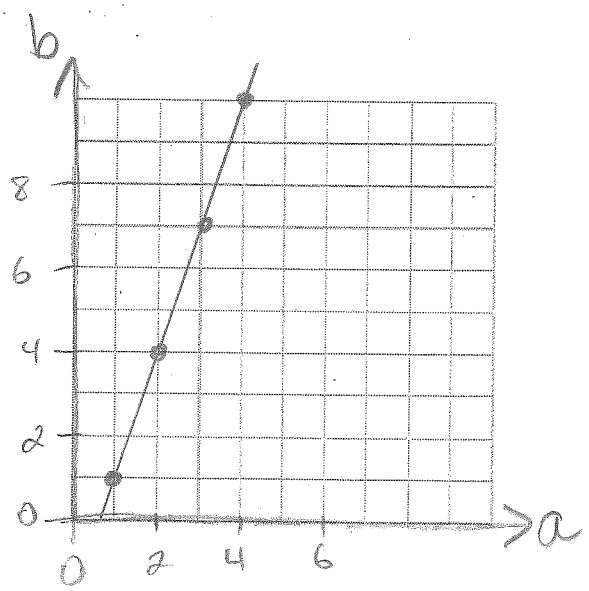
Review Practice:

practice! x-1

1. For each linear equation, create a table of values and a graph.

   a) $b = 3a - 2$

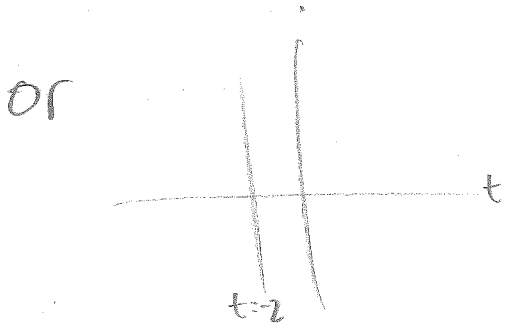
a	~~0~~	1	2	3	4	5
b	~~-2~~	1	4	7	10	13

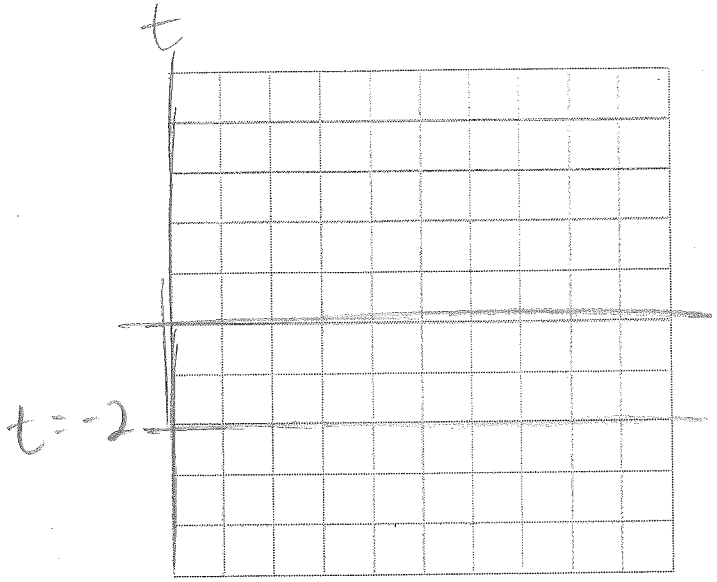


b) t = - 2

x	0	1	2	3	4
t	-2	-2	-2	-2	-2

or



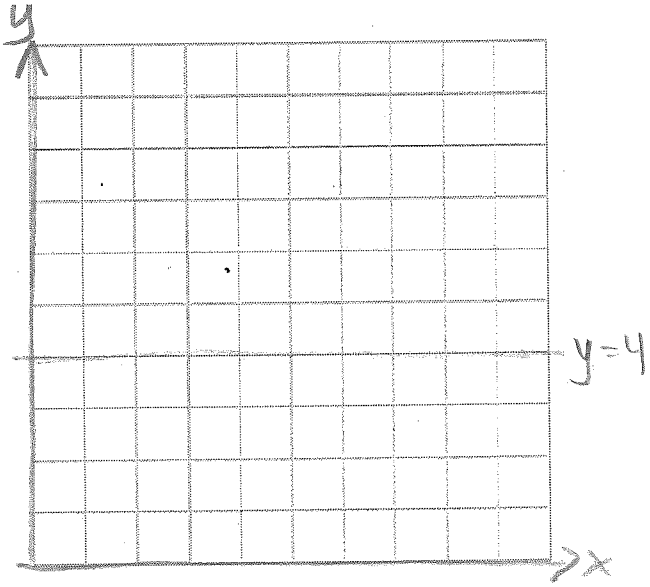


2.

a) Create a graph and a linear equation to represent each table of values

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

$y = 4$



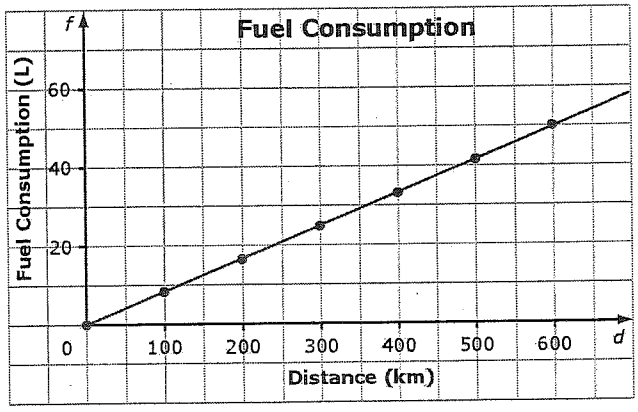
3. The graph shows the relationship between the fuel consumption, *f*, in litres (L), and the distance driven, *d*, in kilometres (km).

a) What is the linear equation?

$y = mx + b$

$y = \frac{50}{600}x + 0$

$f = \frac{1}{12}d$



b) How far could you drive with 34 L of gas?

$34 = \frac{1}{12}d$

$d = 408$ Km

c) Is it appropriate to interpolate or extrapolate values on this graph? What assumption is being made? Explain.

Yes appropriate

assuming maintaining same gas consumption

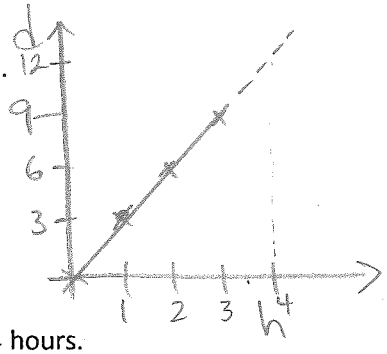
6.4 Graphing Linear Relations

- Creating a Graph from an equation

  Ex. When Bill walks at the speed of 3km/h, the distance d he covers (in km) is related to the number of hours h he walks with the equation: d=3h.

  d) Create a table of values for the first 3 hours, and use it to graph this relation.

h	d
0	0
1	3
2	6
3	9



  e) Extrapolate on the graph to determine the distance that Bill will walk after 4 hours.

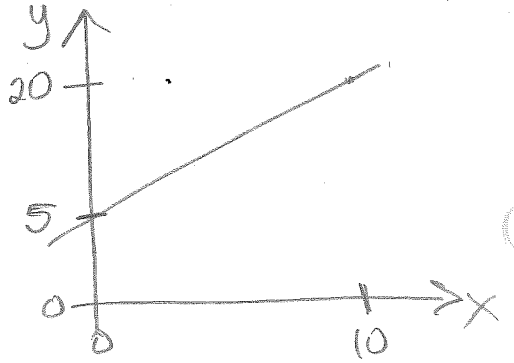
  12 km

  f) Use the equation to determine how long it would take Bill to walk 21 km at the same rate (speed).

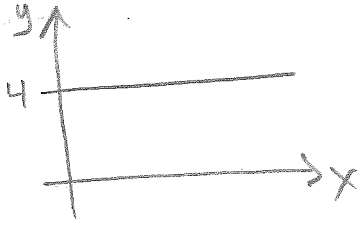
  $21 = 3h \qquad h = \frac{21}{3} = 7 \text{ hrs}$

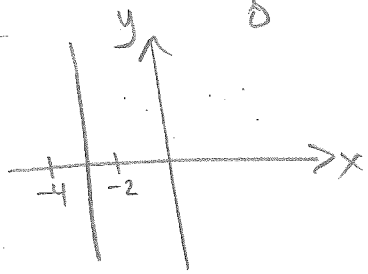
- Writing an Equation From a Linear Graph

  Ex. Write an equation for the relation shown on the graph below:



- Special Lines: Horizontal and Vertical





Ex. State whether the following lines are slanted (S), horizontal (H), or vertical (V):

b) $x = 4$ b) $y+6 = 0$ c) $y = x-3$ d) $2y+4 = 0$ e) $y-x = 0$

V H S H S

Homework: p. 239 #5(b), 6, 7a, 10(a), 11(a, b), 12 (a, c)

Pg 246 # 1-9 Practice Test

Day 7 Test