1. Given the line $l: y = -\frac{3}{4}x + 3$.

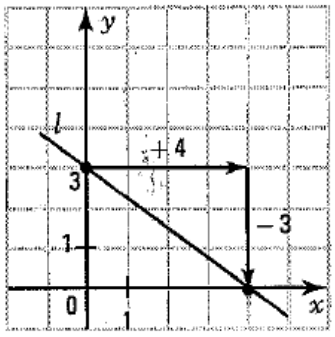
a) Determine:

1. its slope; $-\frac{3}{4}$ 2. its y-intercept. 3

x	y
0	3
4	0

b) Draw the line l in two different ways:

1. using the slope and y-intercept.
2. using a table of values.

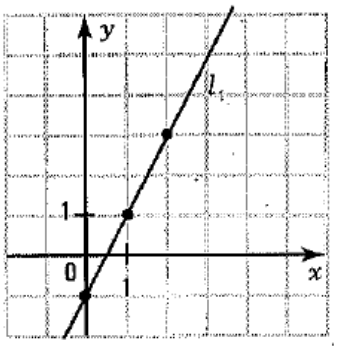


2. Draw each of the following lines.

a) $l_1: y = 2x - 1$

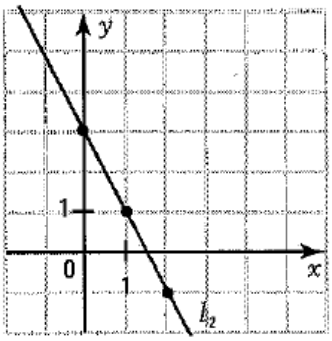
Determine 3 points on the line to verify that they are aligned.

x	y
0	−1
1	1
2	3



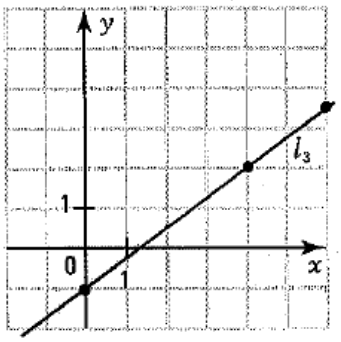
b) $l_2: y = -2x + 3$

x	y
0	3
1	1
2	−1



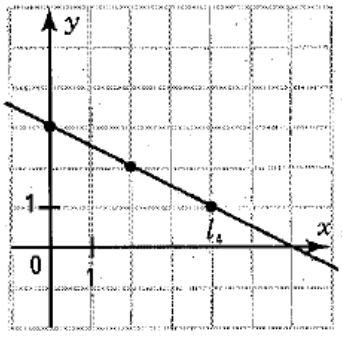
c) $l_3: y = \frac{3}{4}x - 1$

x	y
0	−1
4	2
6	3.5



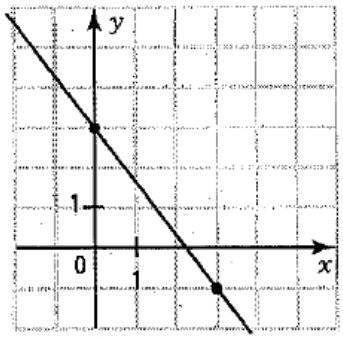
d) $l_4: y = -\frac{1}{2}x + 3$

x	y
0	3
2	2
4	1



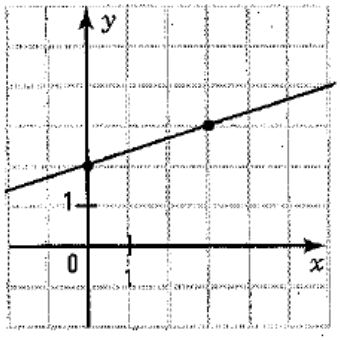
3. For each of the following lines, determine the slope, y-intercept and the functional equation.

a)



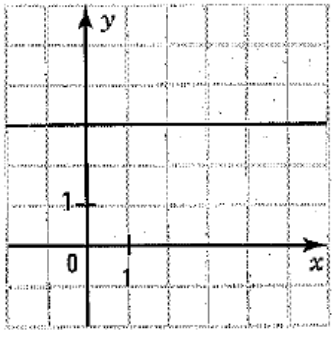
$y = -\frac{4}{3}x + 3$

b)



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

c)



$y = 0x + 3$

4. Given $l: y = -\frac{3}{4}x + 1$. Determine the slope of the line l in two different ways.

a) Using the equation of the line. $a = -\frac{3}{4}$

b) Using the slope formula with any two points on the line. $A(0, 1), B(4, -2);\ a = \frac{-2-1}{4-0} = -\frac{3}{4}$