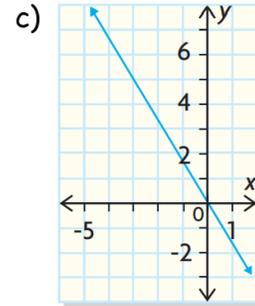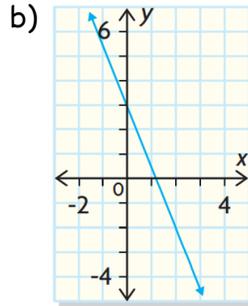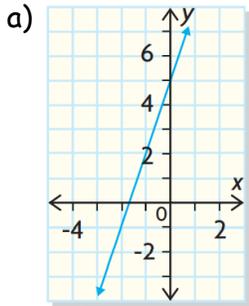# Equation of a Line

1. Determine the equation of the lines shown below.

a)

b)

c)

2. Complete the table shown below by determining the missing values:

	Slope	y-intercept	Equation
a)	-5	3	
b)			$y = \dfrac{4}{3}x - 2$
c)	0	2	
d)			$y = \dfrac{1}{2}x$

3. Determine the equation of the line with the following characteristics.

a) has a slope of 3 and passes through the point A(5,2).

b) has a slope of $-\dfrac{3}{5}$ and passes through the point (-4,-7).

4. Determine the equation of the line that passes through:

a) (1,9) and (-3,1)   b) (4,-2) and (2,-6)

5. Determine the equation of each line:

   a) passing through the point (0,4) with a slope of $-\dfrac{8}{9}$

   b) passing through the point (3,-5) with a slope of $\dfrac{1}{3}$

   c) passing through G(6,18) and H(-12,3)