The equation of a Line in "*slope y-intercept*" form is written:

l

y = mx + b

For example, explain what each of the different parts in the following cost equation might represent (follow the pattern above!)

```
C = 15n + 100
```



## Equation of a Line



Write the equation of the line using the given information.

	Slope (m)	Y-intercept (b)	Equation
a)	-3	6	
b)	$\frac{1}{4}$	-1	
c)	9	(0, -4)	

Identify the slope and y-intercept.

	Slope (m)	Y-intercept (b)	Equation
a)			$y = \frac{1}{2}x - 9$
b)			$y = -5x + \frac{3}{4}$

5

The equation of a Line in "slope y-intercept" form is written:



For example, explain what each of the different parts in the following cost equation might represent (follow the pattern above!)





## Equation of a Line

Determine the equation of each line using their slope and y-intercept.





Write the equation of each line given the following information.

	Slope (m)	y-intercept (b)	Equation
a)	-3	6	y = -3x + 6
b)	$\frac{1}{4}$	-1	y = 4x - 1
c)	9	(0, -4)	y= 9x-4
			U

G Identify the slope and y-intercept for each equation below.

	Slope (m)	y-intercept (b)	Equation
a)	m= 1	b=-9	$y = \frac{1}{2}x - 9$
b)	m=-5	b= 7	$y = -5x + \frac{3}{4}$