## **Basic Linear Functions**

1 Fill in the blank.

In the equation y = mx + b, 'm' is the \_\_\_\_\_ of the line and 'b' is the \_\_\_\_\_. What are the slopes of these linear functions?

y = 4x - 3

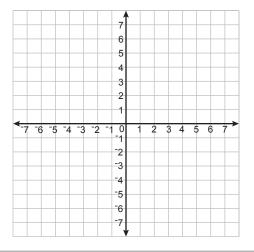
 $y = -\frac{1}{3}x$ 

Complete the table for this linear function.

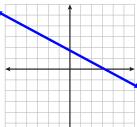
y = 2x - 3

Input	Output
X	y
5	
2	
1	
0	
-2	

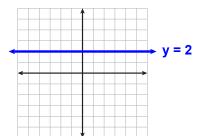
Graph the function from problem 3



Does this line have a positive or a negative slope?



What is the slope of this line?



**7** Find the slope and y-intercept of this linear function.

(Hint: rearrange into y = mx + b form.)

$$2(x-3) = y+1$$

Find the slope and y-intercept of this linear function.

(Hint: rearrange into y = mx + b form.)

$$2x + x = 4(y - 1)$$