

# Graphing a Function

Another way to represent a function is to use a graph.

Graph the function represented in the following equation.

$$b = 2a + 1$$

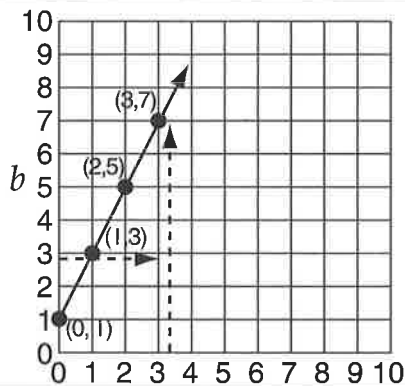
Make a table to find ordered pairs. Choose several values for  $a$ . For each value, evaluate the expression  $2a + 1$  to find the corresponding value of  $b$ .

$a$	$2a + 1$	$b$	Ordered Pair $(a, b)$
0	$2 \times 0 + 1$	1	$(0, 1)$
1	$2 \times 1 + 1$	3	$(1, 3)$
2	$2 \times 2 + 1$	5	$(2, 5)$
3	$2 \times 3 + 1$	7	$(3, 7)$

Graph the ordered pairs and connect them with a line.

Remember, the first coordinate tells the number of units to the right of the origin. The second coordinate tells the number of units above the origin.

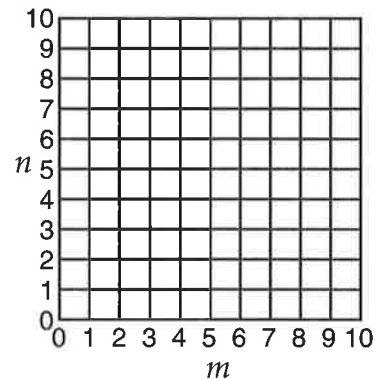
$(3, 7)$  is (3 units right, 7 units up).



Complete the table for the function represented in each equation. Then graph the function.

1.  $n = m + 3$

$m$	$m + 3$	$n$	Ordered Pair $(m, n)$
0	$0 + 3$	3	$(0, 3)$
1	$1 + 3$	4	
2	$2 + 3$		



2.  $t = 3s - 1$

$s$	$3s - 1$	$t$	Ordered Pair $(s, t)$
1	$3 \times 1 - 1$	2	$(1, 2)$
2	$3 \times 2 - 1$		
3			
4			

