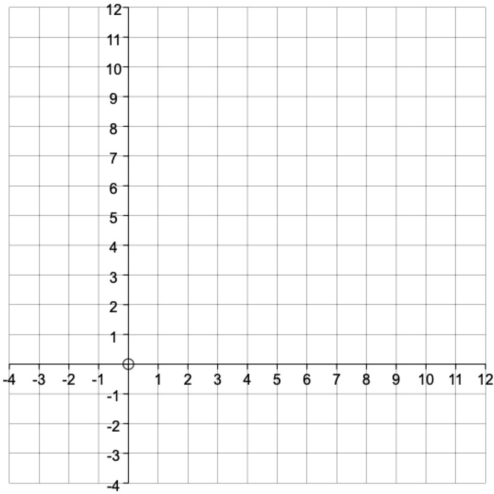
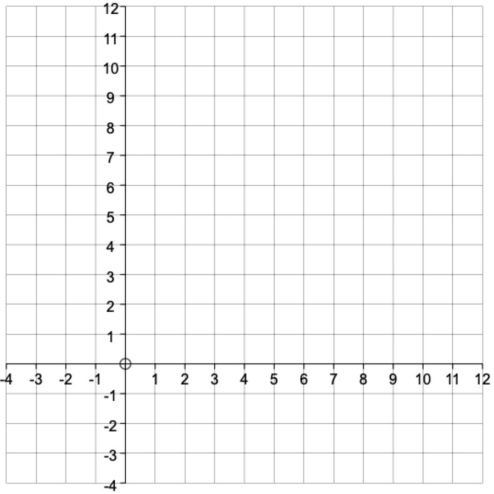


$y = 2x$	multiply x by 2	<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y = 2x + 3$	multiply x by 2 then add 3	<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y = 2x + 5$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y = 2x - 3$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										



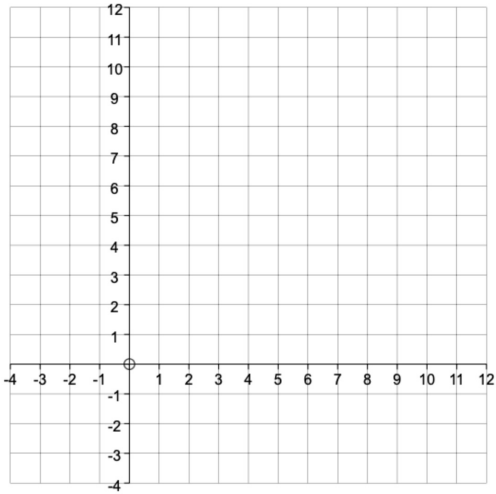
what do you notice ?

$y = 3x$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y = 3x + 1$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y = 4x + 1$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y = 4x - 2$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										



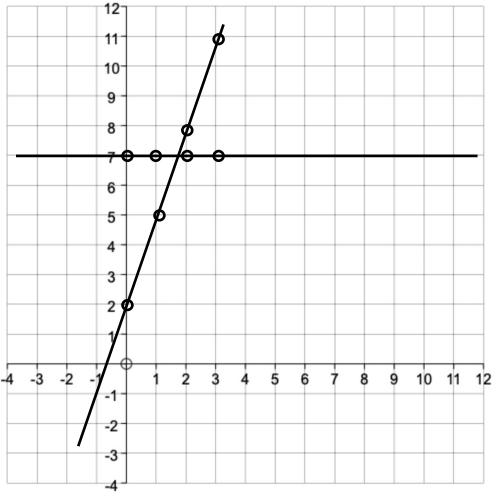
what do you notice ?

$y = 2x$	multiply x by 2	<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y = -2x$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y = 3 + x$	start with 3 then add x	<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y = 3 - x$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										



what do you notice ?

$y = 3x - 2$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y =$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$y =$		<table><tr><th>x</th><th>y</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr></table>	x	y	1		2		3	
x	y									
1										
2										
3										
$x = 6$		<table><tr><th>x</th><th>y</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>	x	y						
x	y									



what do you notice ?