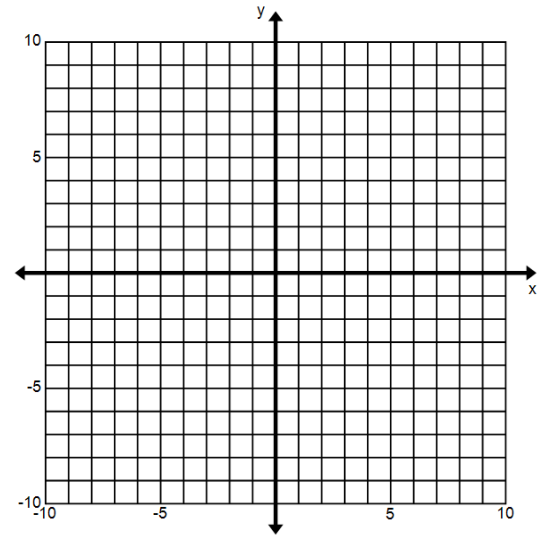


Create the following tables and graph each equation. Determine if it is linear or non-linear.

1. $y = x + 3$

x	Work	y	(x, y)
-4			
-2			
0			
1			
2			

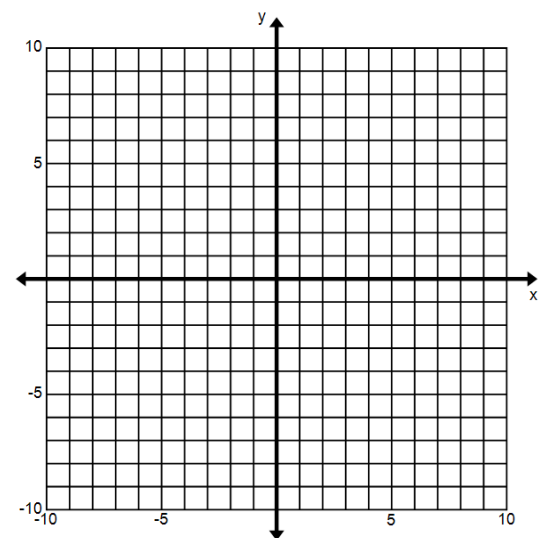
Linear or Non-Linear?



2. $y = \frac{1}{2}x + 4$

x	Work	y	(x, y)
-6			
-4			
0			
4			
6			

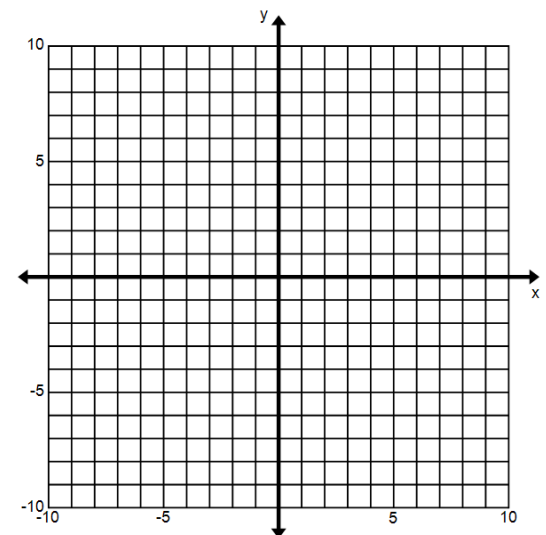
Linear or Non-Linear?



3. $y = -x + 9$

x	Work	y	(x, y)
-2			
-1			
0			
1			
2			

Linear or Non-Linear?

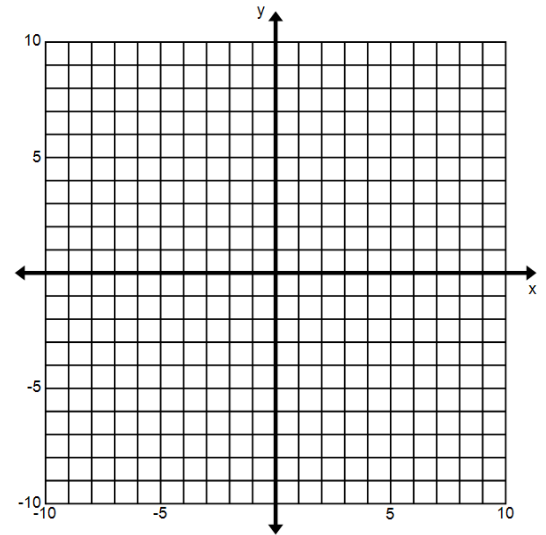


Create the following tables and graph each equation. Determine if it is linear or non-linear.

4. $y = -2x + 3$

x	Work	y	(x, y)

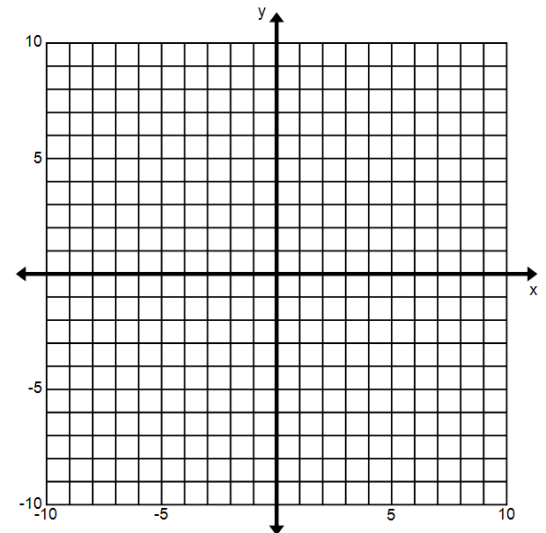
Linear or Non-Linear?



5. $y = 2x^2$

x	Work	y	(x, y)
-2			
-1			
0			
1			
2			

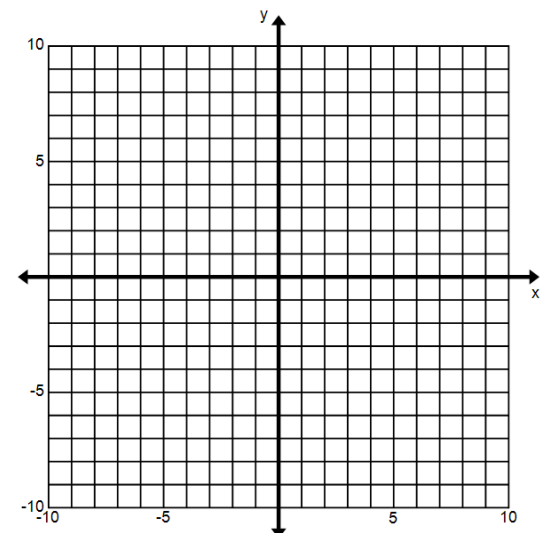
Linear or Non-Linear?



6. $y = |x| - 4$

x	Work	y	(x, y)
-12			
-4			
0			
4			
12			

Linear or Non-Linear?



Determine if the following is linear or non-linear. Justify by finding the Rate of Change.

7.

x	y
1	4
2	11
3	18
4	25
5	32

ROC:

Linear or Non-Linear?

8.

x	y
1	2
2	4
3	8
4	16
5	32

ROC:

Linear or Non-Linear?

9.

x	y
-3	-13
-1	-5
2	7
6	23
12	47

ROC:

Linear or Non-Linear?

10.

x	y
1	2
2	3
3	5
4	8
5	12

ROC:

Linear or Non-Linear?