Graphing Nonlinear Equations



Now graph the equation:

 $y = x^2 - 3$





How is this graph different from the graph of $y=x^2$?

Now graph the equation:

$$y = 4x^2$$





How is this graph different from the graph of $y=x^2$?



Now graph the equation:



How is this graph different from the graph of $y=x^2$?

Now graph the equation:

$$y = (x-1)^2$$

x	У
3	
2	
1	
0	
-1	
-2	
-3	



How is this graph different from the graph of $y=x^2$?



Now graph the equation:

 $y = -x^2$

 $10 \frac{1}{y}$ 9 8-7-6 5-4-3-2-1--10-9 -8 -7 -6 -5 -4 -3 -2 -11 2 3 5 6 7 8 9 10 x 1 4 -2--3 --4 -5--6--7--8-_9--10-

How is this graph different from the graph of $y=x^2$?





4. $y = (x+3)^2$

