

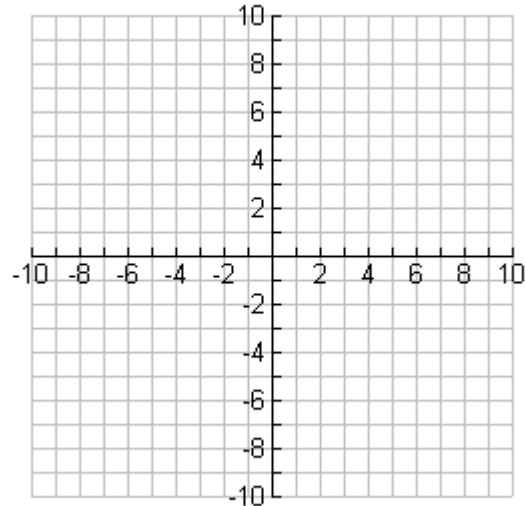
Lab Sheet-Investigating Graphs

Name _____

Directions: Graph the following equations using the graphing calculator. Use the STANDARD window (ZOOM 6). Sketch your graphs. Answer the questions associated with each problem.

1. $Y1 = x^2$
 $Y2 = 4x^2$
 $Y3 = -4x^2$

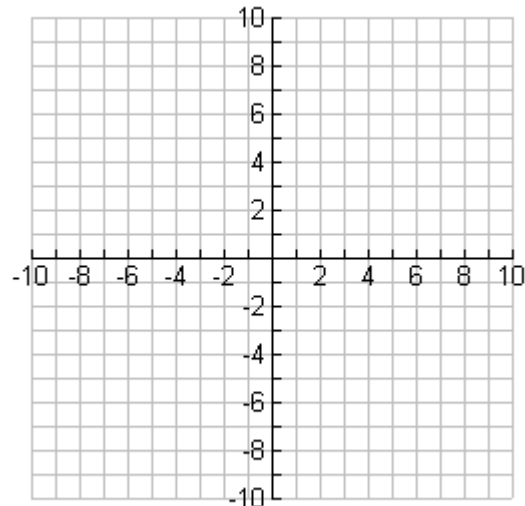
How did the change in the x^2 coefficient change the shape of the graphs? Discuss all the changes you observed.



What name is associated with this style of graph? _____

2. $Y1 = |x|$
 $Y2 = |5x^2|$
 $Y3 = |-0.5x^2|$

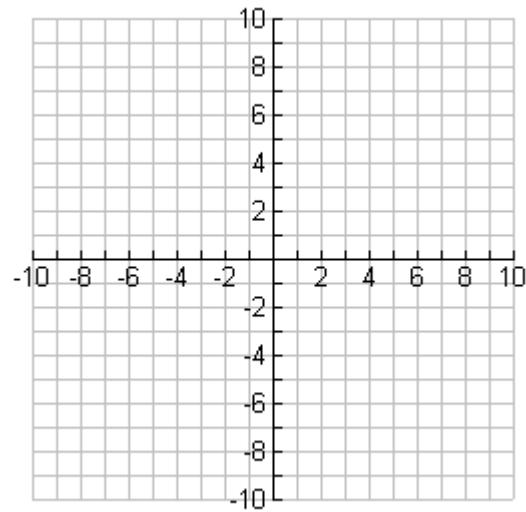
How did the change in the x coefficient change the shape of the graphs? Discuss all the changes you observed.



What name is associated with this style of graph? _____

3. $Y1 = x + 1$
 $Y2 = 3x + 1$
 $Y3 = 0.3x + 1$

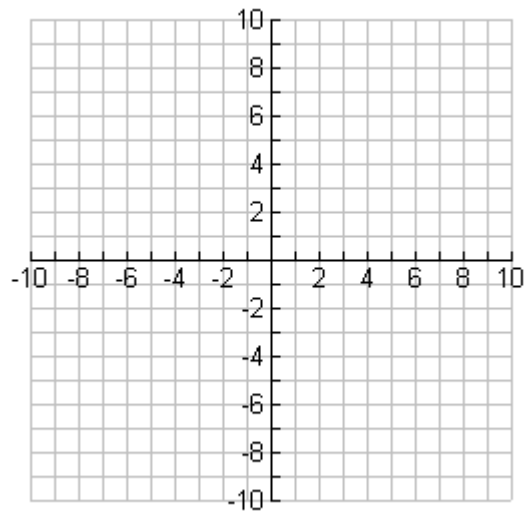
How did the change in the x coefficient change the shape of the graphs? Discuss all the changes you observed.



What name is associated with this style of graph? _____

4. $Y1 = 2^x$
 $Y2 = 5^x$
 $Y3 = 1.2^x$

How did the change in the *base values* change the shape of the graphs? Discuss all the changes you observed.



What name is associated with this style of graph? _____

