## Answer on Question #55817 - Math - Algebra

**3.** In the function  $y + 3 = (2x)^2 + 1$ , what effect does the number 2 have on the graph, as compared to the graph of  $y = x^2$ 

A: It stretches the graph horizontally by a factor of 2

B: It shrinks the graph vertically to ½ the original height.

C: It stretches the graph vertically by a factor of 2

D: It shrinks the graph horizontally to ½ the original width.

**Answer:** D: It shrinks the graph horizontally to ½ the original width.

**4.** Which of the following describes the non-rigid transformation in the function shown below?  $Y + 5 = -2(x - 1)^2$ 

A: A graph is shifted 1 unit right

B: A graph is shifted 5 units down

C: A graph is reflected across the x-axis

D: A graph is stretched vertically by a factor of 2.

**Answer:** D: A graph is stretched vertically by a factor of 2.