

Answer on Question #55816 – Math – Algebra

1. In the function $y + 3(x + 1)^2 + 7$, what effect does the number 7 have on the graph, as compared to the graph of the function $y = x^2$?

- A: It shifts the graph 7 units to the right.
- B: It shifts the graph up 7 units.
- C: It shifts the graph 7 units to the left.
- D: It shifts the graph down 7 units.

Answer: B

2. In the function $y = -3x^2 + 1$, what effect does the negative sign have on the graph, as compared to the graph of $y = x^2$?

- A: It shrinks the graph horizontally by a factor of 3.
- B: It stretches the graph horizontally by a factor of 3.
- C: It shrinks the graph vertically by a factor of 3
- D: It reflects the graph across the x-axis.

Answer: D.