X	f(x)	g(x)
0	0	1
1	1	4
2	4	9
3	9	16
4	16	25

The table shows values for two functions. The function g is a transformation of f. How does the graph of g differ from that of f?

- A) It has been shifted up.
- B) It has been shifted down.
- C) It has been shifted left.
- D) It has been shifted right.

- Which graph represents the PARENT function of $y = x^2 + 3$?
 - A) ----
- В)

- Which describes the difference between the graph of $f(x) = 4x^2$ and $g(x) = -8x^2$?
- A) The graph of g(x) is obtained by flipping f(x) over the y-axis and stretching vertically by a factor of 2.
- B) The graph of g(x) is obtained by flipping f(x) over the x-axis and compressing vertically by a factor of 2.
- C) The graph of g(x) is obtained by flipping f(x) over the x-axis and stretching vertically by a factor of 2.
- D) The graph of f(x) is obtained by flipping g(x) over the y-axis and compressing vertically by a factor of 2.

- Which describes the difference between the graph of $f(x) = 3x^2 + 2$ and $g(x) = 9x^2$?
- A) The graph of g(x) is obtained by shifting f(x) up 2 units and compressing vertically by a factor of 3.
- B) The graph of f(x) is obtained by shifting g(x) up 2 units and compressing vertically by a factor of 3.
- C) The graph of g(x) is obtained by shifting f(x) right 2 units and stretching vertically by a factor of 3.
- D) The graph of f(x) is obtained by shifting g(x) right 2 units and stretching vertically by a factor of 3.

- Which describes the difference between the graph of $f(x) = x^2$ and $g(x) = -(x^2 2)$?
- A) The graph of f(x) is obtained by flipping g(x) over the x-axis and shifting up 2 units.
- B) The graph of g(x) is obtained by flipping f(x) over the x-axis and shifting up 2 units.
- C) The graph of f(x) is obtained by flipping g(x) over the x-axis and shifting left 2 units.
- D) The graph of g(x) is obtained by flipping f(x) over the x-axis and shifting left 2 units.