

Solutions to Unit #1 Assignment - Transformations & Graphing

1. $y = x^3$
2. $y = -6(x - 3)^3 + 2$
3. The Transformations are:
 - a. Reflection on the y axis
 - b. Vertical stretch by 6
 - c. Shift by 3 to the right
 - d. Shift by 2 up vertically
4. $(x, y) \rightarrow (x+3, -6y+2)$
 $(-2, -8) \rightarrow (1, 50)$
 $(-1, -1) \rightarrow (2, 8)$
 $(0, 0) \rightarrow (3, 2)$
 $(1, 1) \rightarrow (4, -4)$
 $(2, 8) \rightarrow (5, -46)$
5. Black Line represents the original function
Blue Line represents the transformed function

