Unit 1 Day 3 HW(1)

- 1. Given the function $f(x) = x^2$, write the function whose graph of f(x) is: A. shifted 6 units to the left
 - B. reflected about the y-axis
 - C. reflected about the x-axis
 - D. shifted 5 units up
 - E. vertically stretched by a factor of 4
 - F. horizontally stretched by a factor of 1/3
- 2. Given the function f(x) = |x|, write the function whose graph of f(x) is: A. shifted 5 units to the right
 - B. reflected about the y-axis
 - C. reflected about the x-axis
 - D. shifted 3 units down
 - E. vertically compressed by a factor of 1/4
 - F. horizontally shrunk by a factor of 3
- 3. Write a function that is obtained after the following transformations are applied to y = |x|. A. shift 2 units up, reflect about the x-axis then about the y-axis.
 - B. reflect over the x-axis, shift 3 units left and 2 units up.

4. Consider the following function f(x):

- A. Graph f(x 3)
- B. Graph f(-x)
- C. Graph -f(x)

