HW #30 Example - Transformations Name_____

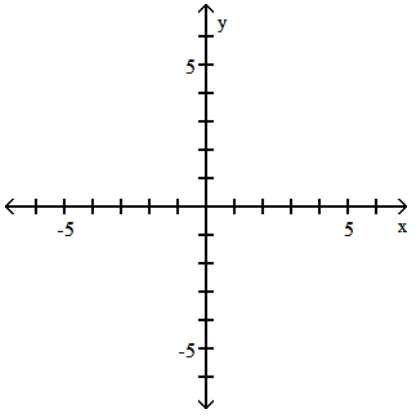
Determine algebraically whether the function is even, odd, or neither.

1) $f(x) = \frac{5x}{|x|}$ 1) _____

A) even B) odd C) neither

Graph the function by starting with the graph of the basic function and then using the techniques of shifting, compressing, stretching, and/or reflecting.

2) $f(x) = -\sqrt{x}$ 2) _____



Write an equation that results in the indicated translation.

3) The square root function, shifted 8 units to the left 3) _____

A) $y = \sqrt{x - 8}$ B) $y = \sqrt{x} - 8$ C) $y = \sqrt{x} + 8$ D) $y = \sqrt{x + 8}$

Graph the function by starting with the graph of the basic function and then using the techniques of shifting, compressing, stretching, and/or reflecting.

4) $f(x) = \frac{1}{x} + 2$ 4) _____