Do Now (2/28 & 3/2)

Find the inverse of the following functions. For #1, verify that it is an inverse.

1. $f(x) = x - 5$
2. $f(x) = 5 \cdot x$
3. $f(x) = \sqrt{x}$

$$x = 5y \Rightarrow$$

$$x^2 = (\sqrt{y})^2$$

$$f^{-1}(x) = x + 5$$

$$f^{-1}(x) = \frac{x}{5}$$

$$f^{-1}(x) = x^2$$

4. What do you notice about the inverse and the original function?