

Find the inverse function of $f(x)$ and show that $f(f^{-1}(x))=x$ (plug your answer into the original function to confirm you found the inverse).

1. $f(x) = 2x + 16$

Step 1: Replace $f(x)$ with y :

Step 2: Switch x and y :

Step 3: Solve for y .

Step 4: Replace y with $f^{-1}(x)$.

Plug in your answer from step 4 into the original equation:

$$f(f^{-1}(x)) = 2(\quad) + 16$$

Repeat the above steps for the following functions:

2. $f(x) = -x + 1$

3. $f(x) = -10x - 2$

4. $f(x) = -3x + 3$

5. $f(x) = 5x + 7$