# Exercise 28

For the following exercises, use the graph of $f$ shown in Figure 11.
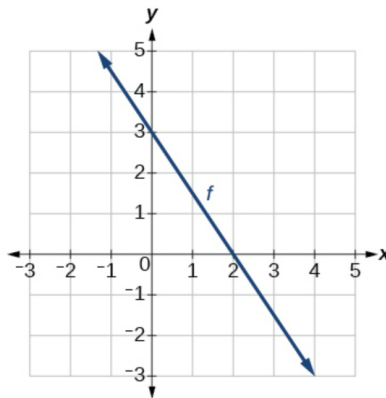


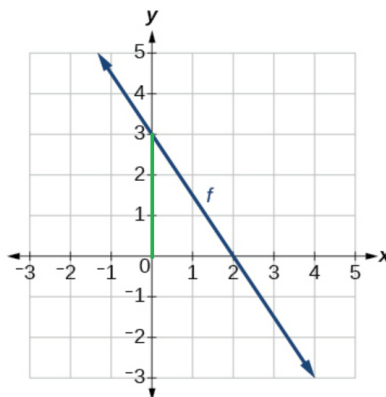Figure 11

Find $f^{-1}(x) = 0$.

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**Solution**

To solve for $x$, apply $f$ to both sides.

$$f(f^{-1}(x)) = f(0)$$

The function and its inverse cancel on the left side, leaving $x$.

$$x = f(0)$$

Based on the graph, $f(0) = 3$.



Therefore,

$$x = 3.$$