Example

Answer questions #1 and #2 for the function $y = f(x)$ graphed below.

1. For what value of $x$ is $f(x) = 3$?

   **Solution:** $f(x) = 3$ means the $y$-coordinate is 3. The corresponding $x$-coordinate on the graph of $f$ is $x = -3$.

   **Answer:** $x = -3$

2. For what value of $x$ is $f(x) = -9$?

   **Solution:** $f(x) = -9$ means the $y$-coordinate is $-9$. The corresponding $x$-coordinate on the graph of $f$ is $x = 1$.

   **Answer:** $x = 1$