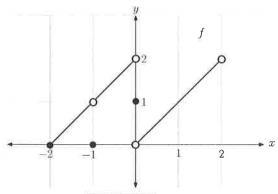
Math 201 - Quiz #1

Name: Key

1. Consider the graph of the given function y = f(x) below.

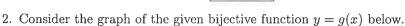


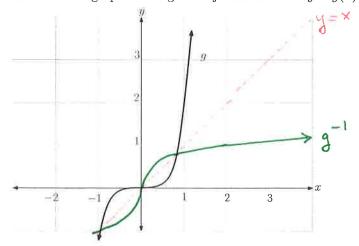
(a)
$$f(-1) = \bigcirc$$

(b)
$$f(0) =$$

(c)
$$f(1) =$$

(d) Domain of
$$f$$
: $\begin{bmatrix} -2,2 \end{bmatrix}$





(a) Using the graph, how can we tell g is injective (one-to-one)?

the graph passes the horizontal line test.

(b)
$$g^{-1}(2) = 1$$
 Since $g(1) = 2$

(c) Using the graph of g(x) above sketch the graph of $g^{-1}(x)$. reflect along y=x

(d) Without using the graph, what is the value of
$$(g \circ g^{-1})(2015) = 2015$$

C these two reduce to the identity function: Recall: $f(f^{-1}(x)) = x$ AND $f^{-1}(f(x)) = x$