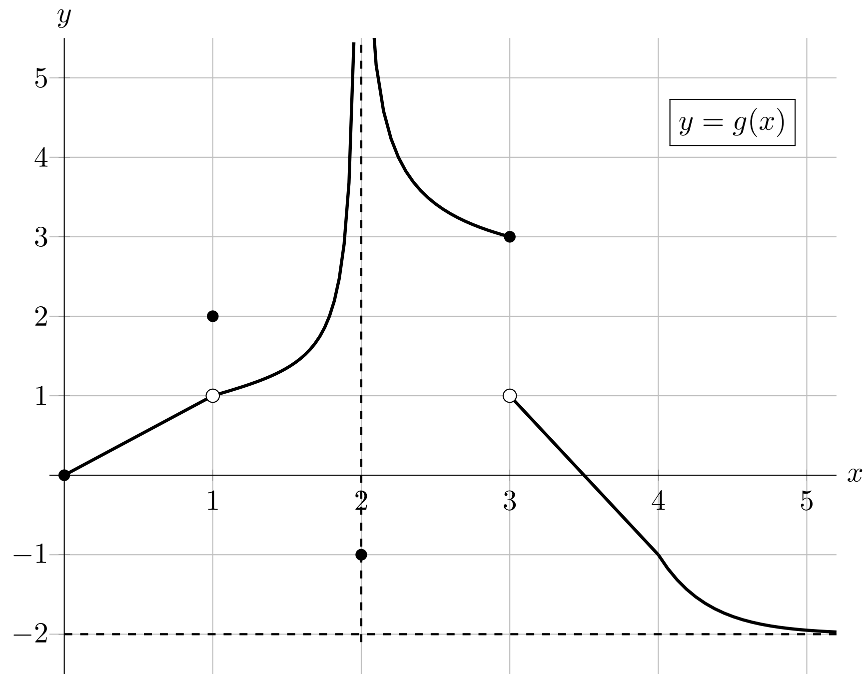
1. [9 points] Below is a portion of the graph of an odd function $g(x)$, which has domain $(-\infty, \infty)$ even though the graph below only shows part of the function with $x \geq 0$. Note that $g(x)$ is linear on the intervals $(0, 1)$ and $(3, 4)$, has a sharp corner at $x = 4$, has a vertical asymptote at $x = 2$, a horizontal asymptote at $y = -2$, and is decreasing for $x > 4$.



a. [1 point] At which of the following values of x is $g(x)$ continuous? *Circle all correct answers.*

$x = 1$ $x = 2$ $x = 3$ $\boxed{x = 4}$ NONE OF THESE

b. [8 points] Find the **exact** numerical value of each expression below, if possible. For any values that do not exist, including if they are limits that diverge to $\pm\infty$, write DNE. If there is not enough information to find a given value or determine whether it exists, write NEI.
You do not need to show work. As a reminder, $g(x)$ is an odd function.

$g(g(3) - 1) =$ -1

$\lim_{x \to 3^+} g(x) =$ 1

$\lim_{x \to 4} g(x) =$ -1

$\lim_{x \to -3^+} g(x) =$ -3

$\lim_{x \to 2} g(x) =$ **DNE**

$\lim_{h \to 0} \dfrac{g(3.5 + h) - g(3.5)}{h} =$ -2

$\lim_{x \to 3^-} g(x) =$ 3

$\lim_{x \to \infty} g(x) =$ -2