4. [10 points] The following is the graph of a function $g(x)$.

Note that $g(x)$ is piecewise linear on $[-5,0]$ and linear on $[1,3]$.

Let $G(x)$ be an antiderivative of $g(x)$ such that $G(0) = 1$. Carefully sketch a graph of $G(x)$ using the axes provided below. In the blanks provided, give the values of $G(-5)$ and $G(-1)$ and be sure your graph is consistent with these values.

$G(-5) = \frac{3}{2}$
$G(-1) = \frac{3}{2}$