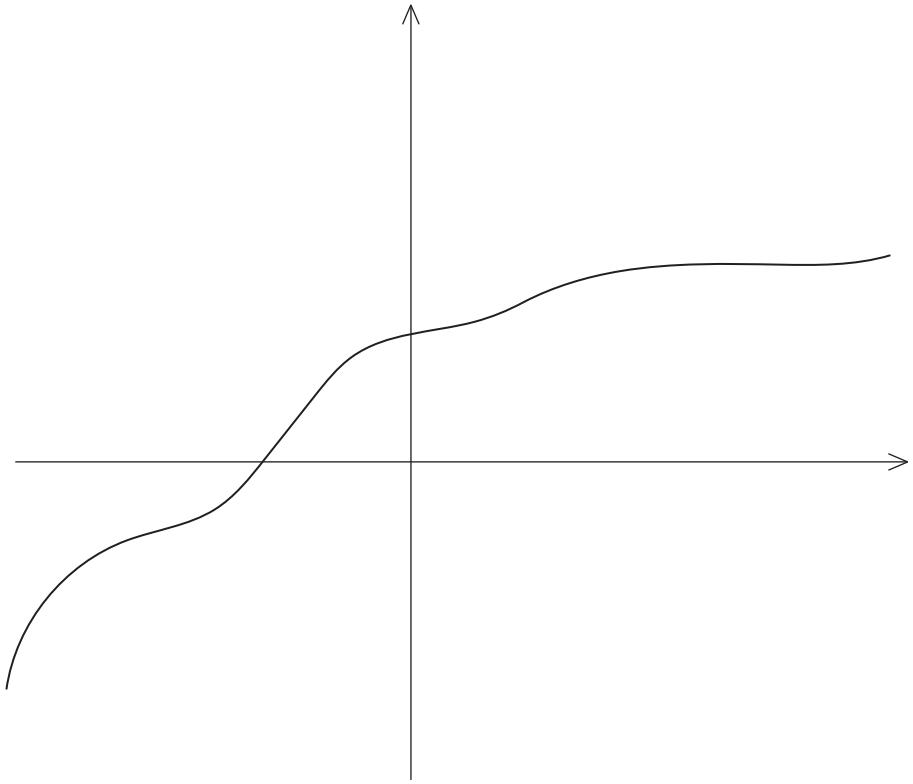
Quiz **Name**

1. The graph of a function $f(x)$ is sketched on the coordinatized plane below. Put in a careful graph of the function $f^{-1}(x)$.



2. Let $a > 0$ with $a \neq 1$ be a constant. Why is the function $g(x) = \log_a x$ only defined for $x > 0$? In the space below derive the formula $\log_a xy = \log_a x + \log_a y$.