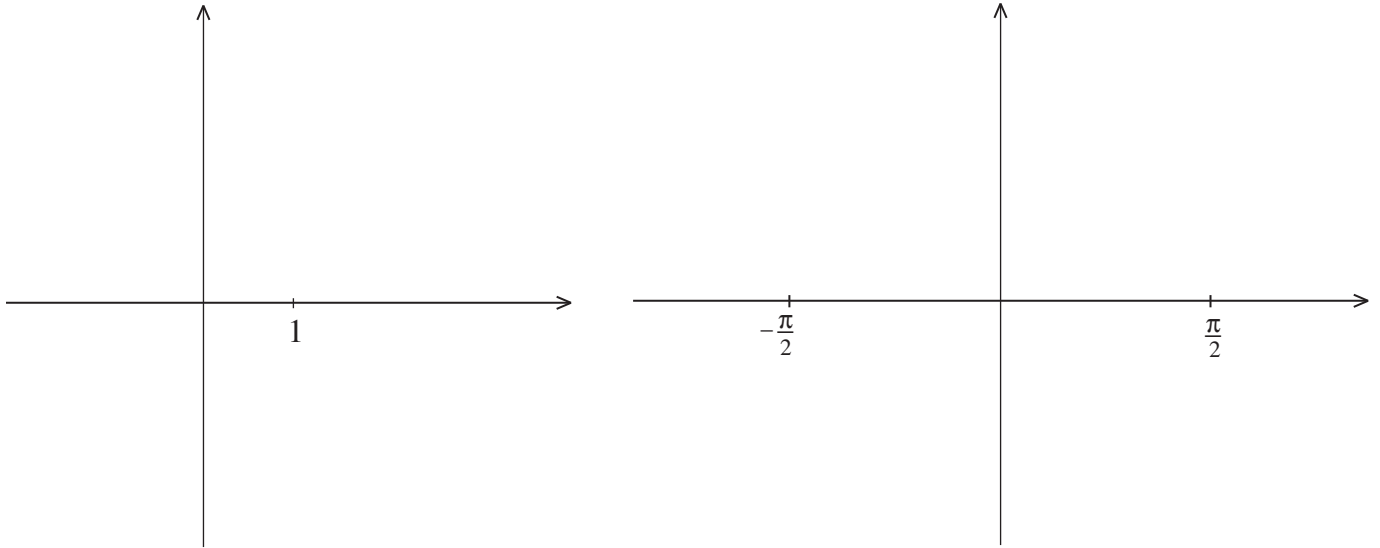**Quiz**                                              **Name**

**1.** Sketch the graph of the function $y = \ln x$ into the coordinate plane on the left and the graph of the function $y = \ln(\cos x)$, with $-\frac{\pi}{2} < x < \frac{\pi}{2}$, into the coordinate plane on the right. (No need to resort to a detailed graphing procedure).

**2.** Show that the derivative of $f(x) = -\ln(\cos x)$ is $f'(x) = \tan x$.