

$$\begin{aligned}
 \frac{16}{(1/4)} \quad \lim_{x \rightarrow \frac{\pi}{2}} \tan x (\sin x - 1) &= \lim_{x \rightarrow \frac{\pi}{2}} \frac{\sin x (\sin x - 1) (\sin x + 1)}{\cos x (\sin x + 1)} = \lim_{x \rightarrow \frac{\pi}{2}} \frac{\sin x (1 - \sin^2 x)}{(\sin x + 1) \cos x} = \lim_{x \rightarrow \frac{\pi}{2}} \frac{\sin x \cos^2 x}{\cos x (\sin x + 1)} \\
 &= \lim_{x \rightarrow \frac{\pi}{2}} \frac{\sin x \cos x}{\sin x + 1} = \frac{1 \cdot 0}{1 + 1} = 0
 \end{aligned}$$