

$$\begin{aligned}
 \frac{34}{15} \quad \lim_{x \rightarrow \frac{\pi}{2}} \left(2x \tan x - \frac{\pi}{\cos x} \right) &= \lim_{x \rightarrow \frac{\pi}{2}} \left(\frac{2x \sin x - \pi}{\cos x} \right) = \lim_{x \rightarrow \frac{\pi}{2}} \frac{2x \sin' x - \pi \sin' x}{\sin(\frac{\pi}{2} - x)} = \lim_{x \rightarrow \frac{\pi}{2}} \frac{\sin x (2x - \pi)}{\sin(\frac{\pi}{2} - x)} \\
 &= \lim_{x \rightarrow \frac{\pi}{2}} \frac{2 \sin x (\frac{\pi}{2} - x)}{\sin(\frac{\pi}{2} - x)} = \lim_{x \rightarrow \frac{\pi}{2}} 2 \sin x = -2
 \end{aligned}$$