

$$\begin{aligned}
 \frac{-41}{(131)} \quad y &= \frac{1}{3} \tan^3 x - \tan x + x \\
 y' &= \frac{1}{3} \cdot 3 \tan^2 x \cdot \frac{1}{\cos^2 x} - \frac{1}{\cos^2 x} + 1 = \frac{\tan^2 x}{\cos^2 x} - \frac{1}{\cos^2 x} + 1 = \frac{\sin^2 x}{\cos^4 x} - \frac{1}{\cos^2 x} + 1 = \\
 y' &= \frac{\sin^2 x - \cos^2 x + \cos^4 x}{\cos^4 x} = \frac{\sin^2 x - \cos^2 x (1 - \cos^2 x)}{\cos^4 x} = \frac{\sin^2 x - \sin^2 x \cos^2 x}{\cos^4 x} = \\
 \frac{\sin^2 x (1 - \cos^2 x)}{\cos^4 x} &= \frac{\sin^4 x}{\cos^4 x} = \tan^4 x
 \end{aligned}$$