

$$\begin{aligned}
 \textcircled{2} \quad & \int (1 + \tan x)^2 dx \\
 & \int (1 + 2 \tan x + \tan^2 x) dx \\
 & \int 2 \tan x dx + \int (1 + \tan^2 x) dx \\
 & = \int 2 \tan x dx + \int \sec^2 x dx \\
 & = 2 (-\ln |\cos x|) + \tan x + C \\
 & = -2 \ln |\cos x| + \tan x + C
 \end{aligned}$$

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Page 1 of 1