

\* \* \* \* \*

$$1 \mid \int \tan^2 x + 1 dx$$

$$\begin{aligned} & \int \tan^2 x + 1 dx \\ & \int \sec^2 x - 1 + 1 dx \\ & \int \sec^2 x dx \end{aligned}$$

Let  $u = \sec x$ , then  $du = \sec x \tan x dx$