

Wolfram|Alpha Input: integrate tan²x - 1/cos²x

STEP 1

Take the integral:

$$\int (\tan^2(x) - \sec^2(x)) dx$$

STEP 2

Integrate the sum term by term and factor out constants:

$$= \int \tan^2(x) dx - \int \sec^2(x) dx$$

STEP 3

Write $\tan^2(x)$ as $\sec^2(x) - 1$:

$$= \int (\sec^2(x) - 1) dx - \int \sec^2(x) dx$$

STEP 4

Integrate the sum term by term and factor out constants:

$$= - \int 1 dx$$

STEP 5

The integral of 1 is x:

Answer:

$$= -x + \text{constant}$$

