

AI1110 Assignment 2

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I. QUESTION 1 (VII)

Question:

Evaluate:

$$\int \frac{\sec^2 x}{\csc^2 x} dx$$

Solution:

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