

$$16. \int \frac{\sin^3 x}{\cos^4 x} dx$$

$$\int \frac{\sin^2 x}{\cos^2 x} \cdot \frac{1}{\cos^2 x} dx$$

$$\int \tan^2 x \cdot \sec^2 x dx$$

$$\int (\tan x)^2 \cdot \underline{\sec^2 x} dx$$

$$u = \tan x \quad du = \sec^2 x dx$$

$$\int u^2 du$$

$$\frac{1}{3} u^3 + C$$

$$\frac{1}{3} \tan^3 x + C$$