


$$2. \int \cos^3 x \, dx$$

$$\int \cos^2 x \, \underline{\cos x} \, dx$$

SAVE

$$\int (1 - \sin^2 x) \, \underline{\cos x} \, dx$$


$$\int \cos x \, dx - \int \sin^2 x \, \underline{\cos x} \, dx$$

$$\sin x - \int (\sin x)^2 \, \underline{\cos x} \, dx$$

$$u = \sin x \quad du = \cos x \, dx$$

$$\sin x - \int u^2 \, du$$

$$\sin x - \frac{1}{3} u^3 + C$$

$$\sin x - \frac{1}{3} \sin^3 x + C$$