## Answer to question # 50929

Integrate with respect to x:

$$\int \cos x \sin x \, dx$$

Solution

Let  $\cos x = u$ , than  $du = -\sin x \, dx$ . So, we can rewrite integral

$$-\int udu = -\frac{u^2}{2} + C$$

According substitution we have

$$-\frac{(\cos x)^2}{2} + C$$

Answer:  $-\frac{(\cos x)^2}{2} + C$ 

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