Integrate with respect to x :

$$
\int \cos x \sin x d x
$$

## Solution

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

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

According substitution we have

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

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

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