

$$\begin{aligned} & \left[\frac{1}{2}x - \frac{1}{2}x + \frac{1}{2}x \right] \\ & \left[\frac{1}{2}x + \frac{1}{2}x + \frac{1}{2}x \right] \left[\frac{1}{2}x - \frac{1}{2}x + \frac{1}{2}x \right] \\ & = \frac{1}{2}x - \frac{1}{2}x + \frac{1}{2}x + \frac{1}{2}x = 0.25x \end{aligned}$$

Integrate
Evaluate the limits
Simplify

Note that we did not return to the variable x after integrating and when evaluating the limits. This is because we had expressed the limits in terms of the variable u .

Example 7.10 Evaluate $\int_0^1 \cos^2(x) \sin(x) dx$

Solution

Since both powers of sine and cosine are even, we employ the half-angle identities:

$$\begin{aligned} & \frac{1}{2} \int_0^1 (1 + \cos(2x)) \sin(x) dx && \text{Half-angle identities} \\ & \frac{1}{2} \int_0^1 (1 - \cos^2(2x)) \sin(x) dx && \text{Power-reduction formula} \\ & \frac{1}{2} \int_0^1 (1 - \cos(4x)) \sin(x) dx && \text{Half-angle identity} \\ & \frac{1}{2} \int_0^1 \left(\frac{1}{2} - \frac{1}{2} \cos(4x) \right) dx && \text{Simplify} \\ & \frac{1}{4} \int_0^1 (1 - \cos(4x)) dx && \text{Factor out } \frac{1}{2} \end{aligned}$$

If we let $u = 2x \Rightarrow du = 2dx \Rightarrow dx = \frac{du}{2} = \frac{du}{2}$, and the new limits are $u_1 = 0$ and $u_2 = \frac{\pi}{2}$. So

$$\begin{aligned} & \frac{1}{4} \int_0^{\pi/2} (1 - \cos(u)) \frac{du}{2} && \text{Substitution} \\ & \frac{1}{8} \int_0^{\pi/2} (1 - \cos(u)) du && \text{Integrate} \\ & \frac{1}{8} \left[\frac{1}{2}u - \sin(u) \right]_0^{\pi/2} = \frac{1}{8} \left(\frac{1}{2} \cdot \frac{\pi}{2} - \sin\left(\frac{\pi}{2}\right) \right) && \text{Evaluate the limits} \\ & \frac{1}{8} \left(\frac{\pi^2}{4} - \frac{1}{2} \right) = \frac{\pi}{32} - \frac{1}{16} = 0.28 && \text{Simplify} \end{aligned}$$

The argument of the cosine is increased by two folds because we apply the half-angle identities twice.

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AW Rasmussen



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