

$$\begin{aligned}
 & \left[\frac{1}{2}x - \frac{1}{2}x^2 + \frac{1}{2}x^3 \right] \\
 & \left[\frac{1}{2}x^2 - \frac{1}{2}x^4 + \frac{1}{2}x^6 \right] \left[\frac{1}{2}x^3 - \frac{1}{2}x^5 + \frac{1}{2}x^7 \right] \\
 & = \frac{1}{2}x - \frac{1}{2}x^2 + \frac{1}{2}x^3 - \frac{1}{2}x^4 + \dots
 \end{aligned}$$

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 Evaluate $\int_0^1 \cos^2 \theta \sin^2 \theta \, d\theta$

Solution

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

$$\begin{aligned}
 & \frac{1}{4} \int_0^1 (1 + \cos 2\theta)(1 - \cos 2\theta) \, d\theta && \text{half-angle identities} \\
 & \frac{1}{4} \int_0^1 (1 - \cos^2 2\theta) \, d\theta && \text{difference of squares} \\
 & \frac{1}{4} \int_0^1 (1 - \cos 4\theta) \, d\theta && \text{half-angle identity} \\
 & \frac{1}{4} \int_0^1 \left(\frac{1}{2} - \frac{1}{2} \cos 4\theta \right) \, d\theta && \text{simplify} \\
 & \frac{1}{8} \int_0^1 (1 - \cos 4\theta) \, d\theta && \text{factor out } \frac{1}{2}
 \end{aligned}$$

If we let $u = 4\theta$, then $du = 4d\theta$ or $d\theta = \frac{1}{4}du$, and the new limits are $u_1 = 0$ and $u_2 = \pi/2$. So

$$\begin{aligned}
 & \frac{1}{8} \int_0^{\pi/2} (1 - \cos u) \, \frac{1}{4} du && \text{substitution} \\
 & \frac{1}{32} \int_0^{\pi/2} (1 - \cos u) \, du && \text{simplify} \\
 & \frac{1}{32} \left[\frac{1}{2}u - \sin u \right]_0^{\pi/2} = \frac{1}{32} \left[\frac{1}{2} \left(\frac{\pi}{2} \right) - \sin \left(\frac{\pi}{2} \right) \right] - \frac{1}{32} \left[\frac{1}{2}(0) - \sin(0) \right] \\
 & \frac{1}{32} \left(\frac{\pi^2}{4} - \frac{1}{2} \right) = \frac{\pi^2}{128} - \frac{1}{64}
 \end{aligned}$$

evaluate the limits
 simplify

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

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