

Centum Preparation 100 Days plan class 12 Maths

Q.No.	DAY - 62
385	2. Evaluate the following integrals using properties of integration (x) $\int_{\frac{\pi}{8}}^{\frac{3\pi}{8}} \frac{1}{1 + \sqrt{\tan x}} dx$
386	2. Evaluate the following integrals using properties of integration (xi) $\int_0^{\pi} x \left[\sin^2(\sin x) + \cos^2(\cos x) \right] dx$
387	Example 9.36 Evaluate $\int_0^{\frac{\pi}{2}} \frac{dx}{4 \sin^2 x + 5 \cos^2 x}$.
388	Example 9.37 Evaluate $\int_0^{\frac{\pi}{2}} (\sin^2 x + \cos^4 x) dx$
389	Example 9.39 Find the values of the following: (i) $\int_0^{\frac{\pi}{2}} \sin^5 x \cos^4 x dx$ (ii) $\int_0^{\frac{\pi}{2}} \sin^4 x \cos^6 x dx$
390	Example 9.40 Evaluate $\int_0^{2a} x^2 \sqrt{2ax - x^2} dx$.
391	Example 9.41 Evaluate $\int_0^1 x^5 (1 - x^2)^5 dx$.