

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
DEPARTMENT OF APPLIED MATHEMATICS

MA 1201 Engineering Mathematics

2015 -16

Tutorial Sheet No. 2

Module IV:

1. Define Gamma function, and establish a Reduction formula for $\Gamma(n)$.

2. Define Beta function and Prove that it is symmetric about m & n .

3. Prove that $\int_0^{\pi/2} \sin^m \theta \cos^n \theta d\theta = \frac{\Gamma\left(\frac{m+1}{2}\right)\Gamma\left(\frac{n+1}{2}\right)}{2\Gamma\left(\frac{m+n+2}{2}\right)}$ and hence find the value of $\Gamma\left(\frac{1}{2}\right)$

4. Show that :

$$\text{i)} \quad \int_0^{\pi/2} \sqrt{\tan \theta} d\theta = \int_0^{\pi/2} \sqrt{\cot \theta} d\theta = \frac{\pi}{\sqrt{2}} \quad \text{ii)} \quad \int_0^{\pi/2} \frac{x^2 dx}{\sqrt{1-x^4}} \times \int_0^{\pi/2} \frac{dx}{\sqrt{1+x^4}} = \frac{\pi}{4\sqrt{2}}$$

$$\text{iii)} \quad \int_0^{\pi/2} x^2 e^{-x^2} dx \times \int_0^{\pi/2} e^{-x^2} dx = \frac{\pi}{8\sqrt{2}} \quad \text{iv)} \quad \int_0^{\pi/2} \frac{d\theta}{\sqrt{\sin \theta}} \times \int_0^{\pi/2} \sqrt{\sin \theta} d\theta = \pi$$

$$\text{v)} \quad \int_0^1 y^{p-1} \left(\log \frac{1}{y} \right)^{q-1} dy = \frac{\Gamma(p)}{q^p} \text{ where } p > 0, q > 0 \quad \text{vi)} \quad \int_0^{\pi/2} (3-x^2)^{3/2} dx = \frac{1}{60}$$

5. Prove that $B(m, n) = \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$

6. Show that $\Gamma(m)\Gamma\left(m + \frac{1}{2}\right) = \frac{\sqrt{\pi}}{2^{2m-1}} \Gamma(2m)$ where m is positive

7. Prove that $B(m, n) = B(m+1, n) + B(m, n+1)$

8. Prove that $B(n, m) = \int_0^1 \frac{y^{m-1} dy}{(1+y)^{m+n}}$

Advanced Engineering Mathematics Problems Solution

Ying-Ying Zheng

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