

Unit - 4

Multiple Integrals

1) Evaluate $\int_2^4 \int_0^3 dx dy$

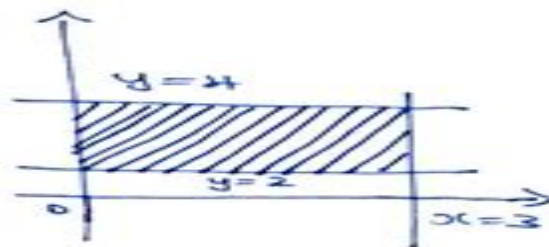
$$I = \int_2^4 \int_0^3 dx dy$$

$$I = \int_2^4 \left[\int_0^3 dx \right] dy$$

$$I = \int_2^4 \left[x \right]_0^3 dy$$

$$I = 3 \int_2^4 dy = 3 \left[y \right]_2^4 = 3(4-2) = 3 \times 2$$

$$\boxed{I = 6}$$



2) Evaluate $\int_0^4 \int_0^3 \int_0^2 e^{x+y+z} dx dy dz$

$$I = \int_0^4 \int_0^3 \int_0^2 e^{x+y+z} dx dy dz$$

$$I = \int_0^4 \int_0^3 \int_0^2 e^x e^y e^z dx dy dz$$

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**South Dakota Agricultural
College, South Dakota State University**



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