

**Multiple Integration**  
*Double Integrals*

**Question**

Evaluate the following double integral by inspection.

$$\iint_R dA,$$

where  $R$  is the rectangle  $-1 \leq x \leq 3$ ,  $-4 \leq y \leq 1$ .

**Answer**

$$\iint_R dA = \text{area of } R = 4 \times 5 = 30$$

