

Obliczyć całki podwójne po prostokącie

1. $\int_0^2 dx \int_2^4 xy dy$

2. $\int_0^1 dx \int_0^1 xy(x-y) dy$

3. $\int_0^1 dx \int_0^1 dy \int_0^1 (x^2 + 2y^3 - z + xyz) dz$

4. $\int_0^{2\pi} dx \int_0^1 dy \int_0^1 (y^2 z \cos x) dz$

5. $\int_1^2 dx \int_1^2 dy \int_1^2 \left(\frac{1}{x} + \frac{1}{y} + \frac{1}{z} \right) dz$