

TEST 7-7

Nech oblast V je ohraničená rovinou $z = 2$ a paraboloidom $x^2 + y^2 = 2z$,
potom

$$\iiint_{\omega_{xyz}} f(x, y, z) dx dy dz =$$

1. $\int_{-2}^2 dx \int_{-\sqrt{4-x^2}}^{\sqrt{4-x^2}} (x^2 + y^2) dy,$

2. $\int_0^{2\pi} dx \int_0^2 \rho^3 d\rho,$

3. $\int_0^{2\pi} dx \int_0^2 \rho^2 d\rho,$

4. $\frac{16\pi}{3}.$