

Rješenje druge školske zadaće iz Matematike 3E

Grupe E2, E4

23.11.2006.

Grupa A

1. (2 boda) $I = \int_{-\pi/4}^{\pi/4} d\varphi \int_{\frac{\sqrt{2}}{\cos \varphi}}^2 f(r \cos \varphi, r \sin \varphi) r dr$

2. (3 boda) $I = \int_1^7 dy \int_{\frac{y-1}{2}}^{\frac{y+2}{3}} y dx = \dots = 9$

3.(3 boda) $V = \int_0^{2\pi} d\varphi \int_0^3 (2 + r^2 + 2r(\cos \varphi + \sin \varphi)) r dr = \dots = 117\pi/2$

4.(2 boda) $I = \int_0^1 dx \int_0^2 dy \int_0^{7-x-y} f(x, y, z) dz$

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Grupa B

1. (2 boda) $I = \int_{\pi/3}^{2\pi/3} d\varphi \int_{\frac{\sqrt{3}}{\sin \varphi}}^2 f(r \cos \varphi, r \sin \varphi) r dr$

2. (3 boda) $I = \int_3^8 dy \int_{y-3}^{\frac{y+2}{2}} x dx = \dots = 125/8$

3.(3 boda) $I = 6 \int_0^\pi d\varphi \int_0^1 r^3 6 \cos \varphi \sin \varphi dr = \dots = 0$

4.(2 boda) $I = \int_0^{1/2} dx \int_0^{\frac{1-2x}{3}} dy \int_0^{\frac{1-2x-3y}{4}} f(x, y, z) dz$