Rješenje druge školske zadaće iz Matematike 3E
Grupe E1, E3, E5
23.11.2006.

Grupa A

1. (**2 boda**) $I = \int_0^1 dx \int_1^{2x+1} f(x,y)dy + \int_1^3 dx \int_{3x-2}^{2x+1} f(x,y)dy$

2. (**3 boda**) $I = \int_{\frac{\pi}{3}}^{\frac{2\pi}{3}} d\varphi \int_{\frac{\sqrt{3}}{\sin\varphi}}^2 r^3 \sin^2\varphi dr = \ldots = \frac{2\pi}{3} - \frac{\sqrt{3}}{2}$

3.(**3 boda**) $V = \int\int_D \sqrt{1 - \frac{x^2}{4} - \frac{y^2}{9}} dxdy = 6\int_0^{2\pi} d\varphi \int_0^1 \sqrt{1-r^2} r dr = \ldots = 4\pi$

4.(**2 boda**) $I = \int_0^{\frac{2}{5}} dx \int_0^{\frac{2}{5}-\frac{5x}{7}} dy \int_0^{\frac{1}{2}-\frac{5x}{4}-\frac{7y}{4}} f(x,y,z)dz$

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Grupa B

1. (**2 boda**) $I = \int_0^{5/2} dx \int_3^{x+3} f(x,y)dy + \int_{5/2}^5 dx \int_{2x-2}^{x+3} f(x,y)dy$

2. (**3 boda**) $I = \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} d\varphi \int_{\frac{\sqrt{2}}{\cos\varphi}}^2 r^3 \cos^2\varphi dr = \ldots = \pi$

3.(**3 boda**) $V = \int\int_D (2 - x^2 - y^2) dxdy = \int_0^{2\pi} d\varphi \int_0^{\sqrt{2}} (2 - r^2) r dr = \ldots = 2\pi$

4.(**2 boda**) $I = \int_0^2 dx \int_0^4 dy \int_0^{8-x-y} f(x,y,z)dz$