

6. Višestruki integrali, 1. dio - Rješenja

$$1. I = \int_0^2 dy \int_{\frac{y}{2}}^1 f(x, y) dx.$$

$$2. I = \int_{\frac{1}{e}}^1 dy \int_{-\ln y}^1 f(x, y) dx + \int_1^e dy \int_{\ln y}^1 f(x, y) dx.$$

$$3. I = 1.$$

$$4. I = 9.$$

$$5. I = \frac{4}{3}.$$

$$6. I = \frac{R^3 \pi}{36}.$$

$$7. I = \frac{\pi^2}{6}.$$

$$8. I = \frac{2}{3} ab\pi.$$

$$9. I = \pi\sqrt{3}.$$

$$10. V = \frac{1}{3}.$$

$$11. P = 2\pi - \frac{3\sqrt{3}}{2}.$$

$$12. V = \frac{88}{105}.$$

$$13. V = \frac{2511}{32}.$$

$$14. P = 3 \left(\frac{\pi}{4} + \frac{1}{2} \right).$$

$$15. P = 14.$$

$$16. P = 8\pi.$$

$$17. V = 4\pi.$$