Univerzitet u Sarajevu Prirodno-matematički fakultet Odsjek za fiziku

NASLOV

PODNASLOV

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Sarajevo, 2021.

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1 Naslov

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1.1 Podnaslov

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1.1.1 Podpodnaslov

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2 Primjeri

2.1 Slika

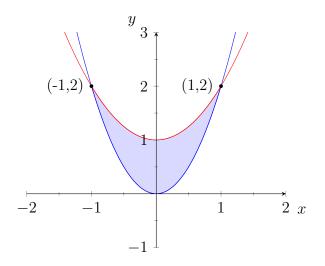


Slika 1: Logo PMF koji nije Word 2003 clip art

2.2 Zadatak

Zadatak 1 Izračunati integral I ako je D oblast ograničena sa $y_1 = 2x^2$, $y_2 = 1 + x^2$.

$$I = \iint_D (x + 2y) \, \mathrm{d}x \, \mathrm{d}y.$$



Slika 2: Slika uz zadatak 1

Prvi korak je odrediti granice: $2x^2=1+x^2 \implies x=\pm 1$. Tačke presjeka su dakle (1,2) i (-1,2).

$$x\Big|_{-1}^1, \qquad y\Big|_{2x^2}^{1+x^2}.$$

$$I = \int_{-1}^{1} dx \int_{2x^{2}}^{1+x^{2}} (x+2y) dy = \int_{-1}^{1} dx \left(xy \Big|_{2x^{2}}^{1+x^{2}} + 2y^{2} \Big|_{2x^{2}}^{1+x^{2}} \right)$$
$$= \int_{-1}^{1} \left\{ x(1+x^{2}-2x^{2}) + 2\left[(1+x^{2})^{2} - (2x^{2})^{2} \right] \right\} dx$$
$$= \dots = \frac{32}{15}.$$

2.3 Tabela

Value 1	Value 2	Value 3
α	β	γ
1	1110.1	a
2	10.1	b
3	23.113 231	c

Tabela 1: Tabela s paketom booktabs.

2.4 Kompleksnija tabela

\overline{m}	$\Re\{\underline{\mathfrak{X}}(m)\}$	$-\Im\{\underline{\mathfrak{X}}(m)\}$	$\mathfrak{X}(m)$	$\frac{\mathfrak{X}(m)}{23}$	A_m	$\varphi(m)$ / °	φ_m / $^{\circ}$
1	16.128	8.872	16.128	1.402	1.373	-146.6	-137.6
2	3.442	-2.509	3.442	0.299	0.343	133.2	152.4
3	1.826	-0.363	1.826	0.159	0.119	168.5	-161.1
4	0.993	-0.429	0.993	0.086	0.08	25.6	90
5	1.29	0.099	1.29	0.112	0.097	-175.6	-114.7
6	0.483	-0.183	0.483	0.042	0.063	22.3	122.5
7	0.766	-0.475	0.766	0.067	0.039	141.6	-122
8	0.624	0.365	0.624	0.054	0.04	-35.7	90
9	0.641	-0.466	0.641	0.056	0.045	133.3	-106.3
10	0.45	0.421	0.45	0.039	0.034	-69.4	110.9
11	0.598	-0.597	0.598	0.052	0.025	92.3	-109.3

Tabela 2: Kompleksna tabela

2.5 Mjerne jedinice

Paket siunits dozvoljava da se lako i pravilno pišu veličine koje imaju mjerne jedinice. Kako se često pogrešno radi: $g=9.81ms^{-2}$. Kako je pravilno: $g=9.81\,\mathrm{m\,s^{-2}}$.