## Lista 3 Céleulo II Gickon G. Nille,

Lista 5.1 (PG. 198)

Lista 5.1 [PG. 198]

$$2718 = 4x^{2} + 3xy + y^{2} + 12x + 2y + 1$$
 $\frac{\sqrt{3}}{\sqrt{x}} = 8x + 3y + 12$ 
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 $\frac{\sqrt{3}}{\sqrt{x}} = \frac{3}{\sqrt{x}} + \frac{3}{\sqrt{x}} = 0$ 
 $\frac{\sqrt{3}}{\sqrt{x}} + \frac{3}{\sqrt{x}} = 0$ 
 $\sqrt{3} = \frac{24x + 9y + 36 = 0}{\sqrt{x}} = 0$ 
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 $\sqrt{3} = \frac{3}{\sqrt{x}} = 0$ 
 $\sqrt{3} = 0$ 

Lista 5.1 (PG. 199)

$$37$$
-)  $Z = R^2 + y^2 - 2\alpha - 3y$ 
 $A(0,0)$ 
 $A(0,0)$ 

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(01)

## (156a 5.1 (PG. 199)

$$T = 1 - 2x + 5\sqrt{1 - x^2} - 10 = -2x + 5\sqrt{1 - x^2} - 9$$

$$T' = -2 + 5 \cdot -2x \cdot \frac{1}{2} \cdot \frac{1}{\sqrt{1 - x^2}} = -2 - 5x = 0$$

$$-2 = +5\alpha = 0.4 = 25\alpha^{2} + 0-4+4\alpha^{2} = 25\alpha^{2} + 0 = -2$$

$$\sqrt{1-\alpha^{2}} = \sqrt{1-\alpha^{2}} + \sqrt{1-\alpha^{2}} = 25\alpha^{2} + \sqrt{1-\alpha^{2}} = \sqrt{1-\alpha^{2}} =$$

$$y = \sqrt{1 - \left(\frac{12}{129}\right)^2} = \sqrt{\frac{29 - 9}{29}} = \frac{5}{129}$$

$$P = \left(\frac{-2}{129}\right) = \frac{5}{129}$$

$$P = \left(\frac{2}{129}\right) = \frac{5}{129}$$

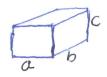
$$5\pi = 2\sqrt{1-\pi^2}$$
  $\Rightarrow$   $\pi = +\frac{2}{\sqrt{29}}$   $\Rightarrow$   $\sqrt{1-\pi^2}$   $\sqrt{29}$   $\sqrt{29}$   $\sqrt{29}$   $\sqrt{29}$   $\sqrt{29}$   $\sqrt{29}$   $\sqrt{29}$   $\sqrt{29}$   $\sqrt{29}$ 

$$T_1 = 1 - 2 - 2 + 5 \cdot 5 - 10 = -9 + \frac{25 + 4}{\sqrt{29}} = -9 + \sqrt{29}$$

$$T_1 = 1 - 2 - 2 + 5 \cdot 5 - 10 = -9 + \sqrt{29}$$

$$T_1 = 1 - 2 - 2 + \sqrt{29}$$

## Lista 5.1 (PS 200)



$$\alpha = 32$$

$$\alpha = \sqrt{32}$$

Lista 7.6 (PG 252)

14-) 
$$\int e^{-\alpha^2} d\alpha d\alpha$$
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$$T = \frac{1}{4} \cdot \int_{0}^{4} e^{u} \cdot \frac{-du}{2} = \frac{1}{4} \cdot \frac{1}{2} \cdot \int_{0}^{4} e^{u} \cdot du$$

$$T = -\frac{1}{8} \left[ e^{-\frac{u^{2}}{4}} \right]_{0}^{4} = \frac{1}{8} \cdot \left[ e^{-\frac{16}{4}} - e^{0} \right]_{0}^{4} = \frac{1}{8} \cdot \left[ e^{-\frac{16}{4}} - e^{-\frac{16}{4}} \right]_{0}^{4}$$

$$= \int_{1}^{2} \left[ \left( g + \alpha g + y^{2} \right) \right]_{-2\alpha + 3}^{-3\alpha + 5} \int_{-2\alpha + 3}^{2} d\alpha$$

$$y = -3x + 5$$

$$y = -2x + 3$$

$$= \int_{-\infty}^{\infty} \left[ (-3n+5) + (-3n+5) + (-3n+5)^{2} - (-2n+3) - nc.(-2n+3) - (-2n+3)^{2} \right] \cdot dn$$

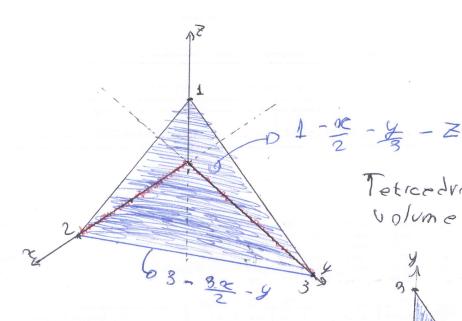
$$= \int \left[ -3\alpha + 5 - 3\alpha^{2} + 5\alpha + \frac{9\alpha^{2} - 3\alpha + 25}{2} + 2\alpha - 3 + 2\alpha^{2} - 3\alpha + \frac{4\alpha^{2} - 12\alpha + 9}{2} \right] \cdot d\alpha$$

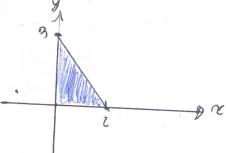
$$= \int_{1}^{2} \left( -\frac{2x^{2}+2x+4+5x^{2}-18x+16}{2} \right) \cdot dx = \frac{1}{2} \int_{1}^{2} (3x^{2}-16x+20) \cdot dx$$

$$= \frac{1}{2} \cdot \left[ \frac{9x^3}{3} - \frac{16x^2}{2} + 20x \right]_{1}^{2}$$

$$=\frac{1}{2} \cdot \left[ \frac{3.8}{3} - \frac{16.4}{2} + 20.2 \right] - \left[ \frac{3.1}{3} - \frac{16.1}{2} + 20.1 \right]$$

$$\begin{cases}
0 < x < 2 \\
0 < y < 3 - 3x \\
0 < z < 1 - x - y \\
3
\end{cases}$$





$$V = \int_{0}^{2} \left[ \frac{6 - 3x}{2} - \frac{9}{2} \cdot \left( \frac{6 - 3x}{2} \right) - \frac{1}{6} \cdot \left( \frac{9 - 9x}{4} \cdot \frac{9x^{2}}{4} \right) \right] \cdot dx$$

$$V = \int_{0}^{2} \frac{3x^{2} - 12x + 12}{8} \cdot dx = \frac{1}{8} \cdot \left[ \frac{9x^{3}}{3} - \frac{12x^{2}}{2} + 12x^{2} \right]_{0}^{2}$$

$$V = \frac{3}{8} \cdot \left[ \frac{3x^{2}}{3} - \frac{3x^{2}}{4} - \frac{3x}{2} \right]_{0}^{2} = \frac{1}{2} - \frac{3}{3} + \frac{3}{3} = 1$$

## Lista 8.5 (PG 290)

$$= \int_{0}^{1} \left[ \pi^{3} - 8\pi^{2} + 16\pi \right] \cdot dx = \left[ \frac{\pi^{4}}{4} - \frac{8\pi^{3}}{3} + \frac{16\pi^{2}}{7} \right]_{0}^{1} = 64 - \frac{512}{3} + 128 = \frac{64}{3}$$

Lista 8.5 (PS. 291) 7-) 05 x 5/4-42-31 -14-22 < y < 14-32 -26262 1 14-22 14-92-81 dx.dy.dz sendo y = 2.5en(d) [J4-92-22]-D.dydz edyz 2.cos(a).da Eemns son  $\alpha = \sqrt{4-22}$   $\alpha = \pm \arcsin\left(\frac{\sqrt{4-22}}{7}\right)$ 1) (1) (2) (2d)), da.dz. 2 (2e) (2x) (arcsen(V4-zi))
-2 -acsen(V1-zi)
-2 -acsen(V1-zi)
-2 -acsen(V1-zi) Sen(2. aicson (14-22). 2). dz = [ [ ] + 2. 14-28 ]. dz. sondo v-4-28 du = -28.dz - IZ - 2 - 1 - Va da = IZ (2+2) - 2. [ ch2 . 2] = 2TT - 1 - 3 - [ (4-4). [ (4-4) . [ (

21 - 27 = 27  $211 - \frac{1}{3} = 0 = 211$