$$= \int_{-\infty}^{\infty} \frac{3^{4}}{3^{4}} - \frac{3^{4} 9^{5}}{3^{4} N} - \frac{3^{4} 9^{5}}{3^{4} N} - \frac{3^{5} 9^{$$

T: horhangi brin yod
$$H = \{(1-t)a+tb: t\in [0,1]\}$$

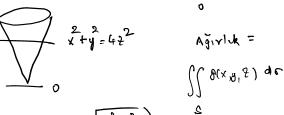
2+okes: $\{(v \times F) \cdot n \cdot d\sigma = \{(1-t)a+tb: t\in [0,1]\}$

Ana
$$4 \times 4f = 0 \Rightarrow$$
 Hen eyer Pismi

1 aromatrization:
$$0[t] = (00^{3}[t], \sin^{3}(t)) : 0 \le t \le 2\pi$$
 $|10^{3}[t]| = (9005^{4} + \sin^{2}t + 9 + \cos^{4}t + \cos^{2}t)^{3}$
 $|10^{3}[t]| = (9005^{4} + \sin^{2}t + 9 + \cos^{4}t + \cos^{4}t)^{3}$

(1) a) x + y = 1

$$\int_{0}^{1} \frac{1}{2} \sin^{2} t = \int_{0}^{1} \frac{1}{2} \sin^{2} t =$$



$$\frac{1}{20} = \left(\frac{1}{2}, 0, \frac{1}{2}, \frac{1}{2}\right)$$

$$\frac{30}{20} = \left(\frac{1}{2}, 0, \frac{1}{2}, \frac{1}{2}\right)$$

$$\frac{30}{20} = \left(\frac{1}{2}, 0, \frac{1}{2}, \frac{1}{2}\right)$$

$$\frac{1}{20} = \left(\frac{1}{2}, \frac{x}{\sqrt{x^2+y^2}}\right)$$

$$\frac{30}{3x} = \left(\frac{1}{2}, \frac{x}{\sqrt{x^2+y^2}}\right)$$

$$\frac{30}{3y} = \left(\frac{0}{2}, \frac{2}{\sqrt{x^2+y^2}}\right)$$

$$\frac{36}{3x}, \frac{30}{3y} = \frac{-x}{\sqrt{x^{2}+y^{2}}} = \frac{-x$$

$$A_{3,4}^{2} = \int_{1}^{2} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{$$

c)
$$\frac{x^2}{0^2} + \frac{y^2}{0^2} + \frac{e^2}{0^2} \times 1$$
 $u = \frac{x}{0} \quad v = \frac{y}{0} \quad w = \frac{e^2}{0}$

(M 1x dy de = M 2 (x,y,2) | dudy dw

Flightoid | $\frac{3(x,y,2)}{3(u,v,w)} = \frac{1}{2} \frac{3(x,y,2)}{3(u,v,w)}$

= $\frac{1}{2} \frac{1}{2} \frac{3x}{2} \frac{3x}{2$

5b)
$$x=0$$
 $g=0$ $x+2g+3g=1$ $g>0$ ile sunvaloran

$$\iint_{S} \left(\nabla x \left(xy, yz, zx \right) \right) \cdot n \, d\sigma$$

$$= \iiint_{S} \left(\nabla \cdot \left(xy, yz, zx \right) \right) \, dv \quad \left(xy, y, zx \right) \, d\sigma$$

$$= \iiint_{S} \left(x+2y, yz \right) \cdot n \, d\sigma$$

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$$= \iiint_{S}$$

 $= \int \int_{-\infty}^{\infty} \left(x^{2} + 3xy - 3xy - y^{2} - \xi \right)$

 $0 = 0 \qquad 0 = 0$ $= \int_{0}^{\infty} \left(\frac{x^{2} - y^{2}}{2} \right)^{2}$

 $= \int_{0=0}^{2\pi} \int_{0=0}^{2\pi} \left[\cos^2\phi - \sin^2\phi\right] \sin^2\theta - \cos\theta d\phi$

Kesisim

0 limit: 0<0 < cost (5-1)

 $-8m \left(\frac{15-1}{2} \right)$