## Geninal Analiza 12

So of extremele function fire fire 3 -> 1R, f(x, y,t) = 0x + by + cz, a + 6 + c + 0 pe

II (20, yo, to) petole steem pt fierau pe A (45) A = {x+y+2=d2}id>0

og (x/y) x/=x2+y2+22+0(2 =) x ER mi h, (x0, y0, 20)=0

unde hi=f+ig=oxiby

I f, y & c' (polisomiale)

dh, = a+2 /2 = 0=) = - 1 /2 / 2/ II song g'= max

g'=(2×,24,22)=18gg=1 2h1=le+2hy=0=,4=-le 1+ rang g'=0=1×=y=2:0 € A

a2+ le + C2 = d2 1 = d2 = 2 FB +102 1 = + 02 2x = + 02+02+02

A-mæginitainchisa } => 1 pct - max global

f:  $\mathbb{R}^{3} \rightarrow \mathbb{R}$   $f(x,y,t) = xyz \neq t = \{x+y+z=a|a>o\}$   $g(x,y,t) = x+y+t-a = \exists \lambda \in \mathbb{R} \text{ at}$   $l : (x,y,t) = x+y+t-a = \exists \lambda \in \mathbb{R} \text{ at}$  l : (x,y,y) = 0 and at l : (x,y) = 0 atl : (

f pe A

$$\frac{\lambda \lambda}{\lambda^{2}} = yz + \lambda = 0 \quad \exists \ (y-x) = 0 = 1 \quad z = 0 \text{ saw } x = y$$

$$\frac{\lambda \lambda}{\lambda^{2}} = xz + \lambda = 0 \quad \exists x = 0 \text{ saw } z = y$$

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 $C_{1} \times = y = \lambda = 3 \times = \Delta = 3 \times = 4 = \frac{\alpha}{2} \qquad f(\frac{\alpha}{3}, \frac{\alpha}{3}, \frac{\alpha}{3}) = \frac{\alpha^{2}}{2}$   $C_{1} \times = y = \lambda = 3 \times = \Delta = 3 \times = 4 = \frac{\alpha}{2} \qquad f(\frac{\alpha}{3}, \frac{\alpha}{3}, \frac{\alpha}{3}) = \frac{\alpha^{2}}{2}$   $C_{1} \times = y = \lambda = 3 \times = 4 = 0 + \lambda \qquad f(\frac{\alpha}{3}, \frac{\alpha}{3}, \frac{\alpha}{3}) = \frac{\alpha^{2}}{2}$   $C_{2} \times = y = \lambda = 3 \times = 4 = 0 + \lambda \qquad f(\frac{\alpha}{3}, \frac{\alpha}{3}, \frac{\alpha}{3}) = \frac{\alpha^{2}}{2}$   $F(\frac{\alpha}{3}, \frac{\alpha}{3}, \frac{\alpha}{3}) = 0$   $F(\frac{\alpha}{3}, \frac{\alpha}{3}) =$ 

Joine determine setamele function f(x|y,t) = ax + by + czof a > le + c2 pe multimea  $A = \{x^2 - y^2 - t^2 = 1\}$ of  $(x,y,t) = x^2 - y^2 - t^2 = 1$ 

1 cà rang g=0=1 x=y=t=0 ≠ A [
3) (xo, yo, zo) este un pa ole extern pe f je A

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