Geninal Analisa 3

$$g' = \begin{pmatrix} \frac{1}{2}g_1 & \frac{1}{2}g_1 \\ \frac{1}{2}g_2 & \frac{1}{2}g_2 \end{pmatrix} = \begin{pmatrix} 32^2e^3y & 32^3e^3y \\ 32^2 & 32^3y \end{pmatrix}$$

-2-

 $\frac{1}{1} + \frac{1}{1} = \lim_{t \to 0} \frac{1}{t} + \frac{1}{1} = \lim_{t \to 0} \frac{1}{t} + \lim_{t \to 0} \frac{1}{t} = \lim_{t \to 0} \frac{1}{t} + \lim_{t \to 0} \frac{1}{t} = \lim_{t \to 0} \frac{1}{t} + \lim_{t \to 0} \frac{1}{t} = \lim_{t \to 0} \frac{1}{t} + \lim_{t \to 0} \frac{1}{t} = \lim_{t \to 0} \frac{1}{t} + \lim_{t \to 0} \frac{1}{t} = \lim_{t \to 0} \frac{1}{t} + \lim_{t \to 0} \frac{1}{t} = \lim_{t \to 0} \frac{1}{t} + \lim_{t \to 0} \frac{1}{t} = \lim_{t \to 0} \frac{1}{t} + \lim_{t \to 0} \frac{1}{t} = \lim_{t \to 0} \frac{1}{t} + \lim_{t \to 0} \frac{1$ = lim 2 me (at tm) sin (le +tn) + ter(a+tm) sin (a+tm) = mRe ainle+ nera. Kosle 2 f = 2e2 x niny f: R - > R f(*y) = { *6+y6 , 22 +y +o , x=y=0 Of fart

De Johnst of de de dy @ dais functiei De f cont je 12 / {03 (functii elementale) | f (4y) - f(90) | = | x 4" | + | x y | < 1 | x y | -> (0,0)

×6+y67, 2/x3y3/=) 1/2 /x6+y6/=, f exter Q 2 f = 4x3y3(x6+y6)-x4y4(6x5) = -2x9y4+4x3y10
(x6+y6)2
(x6+y6)2 2 x (0,0) = lin ((x,0)-f(0,0) = 0 lim 2f = lim -2x5a1x6+4x3 210 x10 = x+0 +x = x+0 (x6+a6x6)

y=0x = $\lim_{x\to 0} \frac{x^{43} \left(-2a^{4} + 4a^{10}\right)}{x^{2} \left(1 + a^{6}\right)^{2}} = 0$ \[\left(\frac{\pi \cdot \frac{\pi \cdot \frac 4 x 3. y 10 = (x6) 2 (x6+y6) 2. (x6+y6) = (x6+y6) 2. (x6+y6) = = (x+y6) x+00

A) I este delivabilà in (0,0) (3) T: P2 > R liviolà de

lim
$$f(x,y) - f(0,0) - t(x,y) = 0$$
 $x \to 0$
 $y \to 0$
 $x \to 0$