3agaua 3. Françairegal $f(x,y) = e^{(x+y)}(x^2 - 4y^2)^3$ f(x,y) = R f(x,y) = R f(x,y) = 0 f(x,y) = 01) Rangen varmible npaley begrebel no 2 a no y netboro zy = e(2 - 4) (2 - 4) } + e(2 - 4) (2 - 4) 2 = e (2+9) (2-4y2) 3 e (2+9) (-24y) (2-4y2) 2) $z'_{2} z_{0}$: $e^{(2+3)}(2^{2}-4y^{2}) + 6x e^{(2+3)}(2^{2}-4y^{2}) = 0 : e^{(2+3)}(2^{2}-4y^{2}) = 0$ (x2-uy2) 3+12x (x2-4y2)=0 (x2-4y2)2 (x2-4y2+12x) 20 zy=0; (2+3) (2-4y²)3 (2+4) (2-4y) (2-4y²)20

(x-4y2) - 48y (x2-4y2)=0 (x2 4y1) x (x2 - 4y 2 48 y) 20 12/20] => [(22-49x) 2(22-49 +12x) >0 = = 0 \ = \ \ \(\(\x^2 - 4y^2 \)^2 \(\x^2 - 4y^2 - 48g \) = 0 (22-493) 2 (22439+122-2+443+489)=0 1:(12) (x2-442) (x +44)=0 (R-ly) 2 (R+ly) 2 (R+44) = 0 8-2y=0 mil 2+2y=0 mil ++4y=0 1) f (4y²-4y²) (2²-4y²+3x) = 0 ppu moders y X=14, yer marrow & f 2)] (4y - 4y) (2 - 4y + 12x) =0/mm modern y ez-ly, y GR 3) ((169 - 492) (164 - 484) =0 12-44

Thorex (0,0) 4 (-16,+4 A abraigen reconsible many begante bropare repulgion: +68(82-mg +1e(2+19) (3(x2 uy2)3,2x + 68.2 (82 ug3 ((x2-492)3 +3x(x2-443)x + 6(22-442) + 24 82 (82-4632)) = (x2-492) (22-492) +62(x2-492)+ 2+3) (x2-492) (22-492) +6 x(x2-492)

Zy = (2+3) ((22-492) + 249 (22-493)3) Zg = 1 e (x24) (x24y3)3 -24y(x24y3)2+e(x4y3)(x24y3)(-4) -24 (82-432) 2-244.2 (82-492). (-4) 248) = = (229) ((2-492) - 124 (2-492) - 124 (2-492) + + 3844 38442 (x-442) = = (2+4) (2+492) (12-493) - 249 (2-4192) - 2482 + 3693 + 38493 = = e(2) (22-49) ((22-49)2 - 449(22-49)-2482 + 4809) = 1 = 1 e(2+49) (12-442)3 + 6x(x2-442)2) + e(x+4) (3(x2-44)2)(-4)29 + 6x · 2 (x2-4y2) · (-4) - 2ey) = = 0(2+4) ((2+4y2)3+3x(x2-4y2) + say(x2-4y2)- 96ey (x2-4y2) = e(x+9) (x2-492) ((x2-492) - 124 (x2-492) - 124 (x2-492) Hauger A=== (0,0), B=== (0,0) 4 C=== yy (0,0), remo Su grant rapolimen moveru (0;0) no gornamore ma moule youthern exemperateques que (AC-B >0):

A=Zxx(0,0)=0; B=Zxy(0,0)=0; C=Zyy(0,0)=0 AC-B2=0- melegemon goldballitule ucrelegela willem moure greaterille, remo a 60 boes mornoise buga (-eg, y) 4 (ey, y) - quarenue 0)-Barrenner anamentement generalis que morky (-16;4): A=Zxx (-16; 4) = e (-16+4) (256-64) (256-64) + 6 (-26) (256-64) +30.256 -24.16) = 6.192 (1927 - 96.192 + 30-256-24-16) 78 78 × - 914 B= Zxy (-16,4) = e-192 (1923 -486, 192 - 48, 192 + +96 -16-4) =-1462 C= = 243 (-16,4) = e-192 (192 - 24,4. 192 - 24.256 +48016) 之-3655勢 AC-B2 = [-994) (-3462) - (-3655) = 1336268+3655 = 1338 923 >0 => marka (-16,4) - specmpellyly A<0=> mousea (-16,4)- moveres, & namepail

