Mychammad Daniyal Kautrary Nama NIM: 21/479067/7K/92800 Tugar 2 Derivatif Partial 1. Takk lister dan juniango dan F(x,y) = 3x2y+y= -3x2y=+2-10 * 2F = 6+y - 6x Steed the base 29 4- 11 3x2+342-69=0 6xy=6x=0 xy-x=0 x'+y'-2y = 00 - 1 - 1 - 1 - 1 x (y-1) =0 x=0 / y=1 42-29=0 X2-1=0 9(y-2)=0 (x-1)2=0 y=0 / y=2 (x-1)2=0 (0,0)=(0,2) (1,1) + D (=1y) = (6y - 6) (6y - 6) - (6+)2 * D(0,0) = 36(02-2.0+1-0") = 36(32-29+2-x2) - 36 Saddle Point fxx (0,0) = (6.0-6) = -6 Relative maximum * D(0,2) = 36 (22-2.2 +1 -02) = 36.1 = 36 Fx+ (0,2) = 6.1-6 = 6 Relative minimum

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2. Title parker 4+ - zy et =1 yang mountle prake tendelent dangen
 (-2, -1,5).
* f(xig. e) : (x ez)2 + (g a) " + (8-5)"
 9 (ray, 2) = 9+ -24+2-1
* fx = 2(++2):2×49
                         N 62 - 4
  . 69 = -1 may 10 may 100
× 2×19:42
                   29+2 = - 22 1
                                  27-10 = A.
      × = 2× -2
                   y = ->-1
                                   2 = >+0
      9-9-29-2-120
     4(27-2)-2(-2-1)+(210)-1:0
      82-3 +22+1 + 2 +5-1 =0
               1032-120
                   7:3:4
        Y= 1 x . 2
                        9 = - 2 - 1
                        1 -4 -1 = -25 = 2 +5
       一十十二十三十二年(三年)
              Color the M
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3. d: x-y+ ?= 1 merupakan bidang singgung ?= x2+ ay= . Tentukan nilatia # bidang d bersinggungan dengan = x + ay + di hik (xo, yo, to).

e= x + ay = -> x + ay - + = 0

f(x, y, \frac{1}{2}) = x + ay - + 3011-1= (15,61.00) Fz = -1 - Perr bidang singgong di (xoty, te) F+ (+0 40) . (+- ×0) + Fy (x0, y0) (y- y0) = (2-20) 2 xo (x - to) + 2 ayo. (y-yo) = 2 - 20 2 to x - 2+0' + 20 yo y - 20 yo 2 + 20= 8 -1 x0x - 201 y09 + 2 = -2x02 - 20 y02 + 20 dimarm pers. dialos and adalah pers d. schingga -2 +0 x = x | -2a y o y = y | 7 = 7 -240'-2040'+ to=1 Schingga, to = 3 +1 , diamana to = Yo' + a yo' 300 70 = 1 + 1 4 9n Jelvingga, 3 + 1 = 1 + 1 dengan syarat t= xty dea x2 + y2 + 2 = 1 | + 92 (x191t) = x2 x y2 x 2 = 1 4. F(x,y, 7) = x + y 2 + 22 \$ 9. (x,y, t) = x+y-t 49. (x,y,z) = i-1 - h 792 (x,9,2) = xi +24j+2k2 DF(44) = 2x1 + 24j+2kz 2 xi + 2yj + 22k = >i+xj-xk + Nxi + N2yj + N22k 2 x = x + Nx | 2y = x + N2y 2 5 27 . -2 + N2+/25 * xty-2 =0 (5) 17.124 10 | 1/4 1/5 + 21 =1 (3-N) 4 (0-2N) 2 (20-5h) 1 =1

(KIKY

dani perriz diator- di dapat

(x,14,12,1) = (-20 × 646 ; 35 × 646) = 5 × 646) = 0 F(x,4,12) = 75

646 = 646 (+2,92,82) = (20/196, -35/196, 5/196) = F(x2,442) = 75 (x3,42,73) = (-2\sqrt{95}, -3VOI -5 \(\frac{95}{19}\) = \(\frac{1}{3}, \frac{1}{3}, \frac{1}{3}, \frac{1}{3}\) = (0 (xy, ya, ta) = (2 \ 95 , 3 \ 95 , 5 \ 95) = = (xa, ya, ta) = 10 10 + 20 mg (4-4) = 2 - 20 -Indi nilai maxo Tingsi herdde jada (xin 43, 21) dan (x4, 44, 24). discourse sent dialog made adalot sent de robinga 18-8 1 Paret No 1 2 2 2025-4--0% of the parties of almost, it for a soft parallel 4 4 5 0 5 Television I al 5 + 10 - 14 - 10 more = 5 1 more 19 100 more "9 + " of be a published 3-14-1 - 14 1/12 / 10 h 3 de - (05 + 1x : 150 m) 100 (NS 4105 + 125 - (40) 45 4557 + 1850 + 180 + 180 + 18 - 18 216 2 NES + 185 + 185 + 185 72 324 - 4- 155 1. 50 - 4 6 7° C 40 6 + 1 3/ 42/ 1.7× (1) 25% U.S-02 U.S-2" U.- 12 (400) & 400 15 15-07 (KIKY)