## Jeminal Andiza 10

1) de re detelmire extlerrole f:R3 >R i f (x, y, z) = xyz g(x, y, z/=x2 + y2-1) 3 (x, y, z/=x2 + y2-1)

1. f, g ∈ C<sup>®</sup> 2. /g'(x,y)z) = (xx 2y 2z) Wesseyersen sã

x = y=1=0 &A

3. (xo, yo, to) pet de extern pt f pe 4 ) J 1 ER où h'x (xo, yo, to)=0

h = f + Ag

> C1 K=y=2C2.1 K=y=2)  $\neq 2$ C2.2 K=2=2C2.3 Y=2=2C2.3 Y=2=2

=) =(y-x/+2/(x-y/=0 y=x) =) =(y-x/+2/(x-y/=0

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C2 2/2+ 2/2/20 7 t=- 2/ 3x=1 = x= ± 1/3=4=- Z

早試(±1/5,±1/5);  $\lambda=\mp 2\pi$   $= \frac{1}{375}(\pm \frac{1}{15},\pm \frac{1}{15},\pm \frac{1}{15}); \lambda=\pm 2\pi$   $= \frac{1}{375}(\pm \frac{1}{15},\pm \frac{1}{15},\pm \frac{1}{15}); \lambda=0$   $= \frac{1}{375}(\pm \frac{1}{15},\pm \frac{1}{15},\pm \frac{1}{15}); \lambda=0$ 

21/2 (2) 2 2) = (2 4 4) = (2 4 2) = (4 2) = (4 2) = (4 2)

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Extande funtsion of (x, y, 2) = xyz 8=(9394) P. A= { x+y++=0} g, (xy, 2)=x2+y + 2-1, grayours gr (x,4,+)= x+4++ 1) f.g & C 2) 2g g/=2 g= (1x 24 2+) of to, yo, xo) potde extern local je s 現 y g'=0 ラ (2×24) =0 + X=y と=y=t=) 3元=0 3 3元31 h x (xo, yo, to) = 0 2h = yz + 22x+B=0 =1 7 (y-x)+22 (x+y)= 2h = XZ+ XZY+B=0 (2-22) (y-x) =0 5t= 2 8 = 24 + 12 = 0

CD X=4>2 EAGK=9 = 22 # 2 2メナセンのラモニーレメ TK3+ F=1=1 => 6x3=1 => x= + T - 2 (± 1/6) = 1/6 / T/6) A ste indisa zi mary. ]= = (\* m, ym, tm) of f(xn, gn, zn) = mox f(A) 2i ] (xm, ym, tm) ai f (xm, ym, +m) = infl (4) AND PROPERTY SE (一句,一句,后);(一句,一句);(一句,一句);(子,一句) mercim global

Affle ( \$6, \$\frac{1}{\sigma}, \frac{1}{\sigma}) pot min