

$$\frac{2}{2} = x(os(x+y))$$

$$\frac{2}{2} = 0 = (-1)(x - (-1)) + (-1)(y - 1)$$

$$= -x - (-y + 1)$$

$$\frac{2}{2} = -x - y$$

$$= x + y + 1$$

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

$$\frac{2}{2} = x$$

(9)
$$f(2,5)=6$$
 $f_{\infty}(2,5)=1$ $f_{\infty}(2,5)=-1$

CShmale $f(2,2,1,9)$
 $f(2,2,1,9)=6+(1)(x-2)-1(y-5)$
 $f(2,2,1,9)=6+(2,2-2)-1(4,9-5)$
 $f(2,2,2,1,9)=6+(2,2-2)-1(4,9-5)$
 $f(2,2,2,1,9)=6+(2,2-2)-1(4,9-5)$
 $f(2,2,2,1,9)=6+(2,2-2)-1(4,9-5)$
 $f(2,2,2,2,1,9)=6+(2,2,2,1,9)$
 $f(2,2,2,$

2=x2-x4+3x2 if (xiy) changes from (3,-1) to (2.96, -0.95) frud Dz & dz 172= f(2.96,-0.95)-f(3,-1) = -.7189 $dz = 2 \times dx + 2 y dy = (2 \times - y) dx + (-x + 6y) dy$ QZ= (2(3)+1)(-.04)+(-3-6)(05) = 7(-.04)+(-9)(.05) _ -.28 -.45 = -.73 7 a+6 = lu+16/ note: |dz| = |2xdx| + 2ydy1ad=10/16/ 1 dz1 = | Zx | dx | + |Zy | | dy | Exam







