March 15,2006

Imayo Enhancent

-unsharp masking + high boost Biltoning

- Unshamp Masking.

f (x,y) = f(x,y)

processed

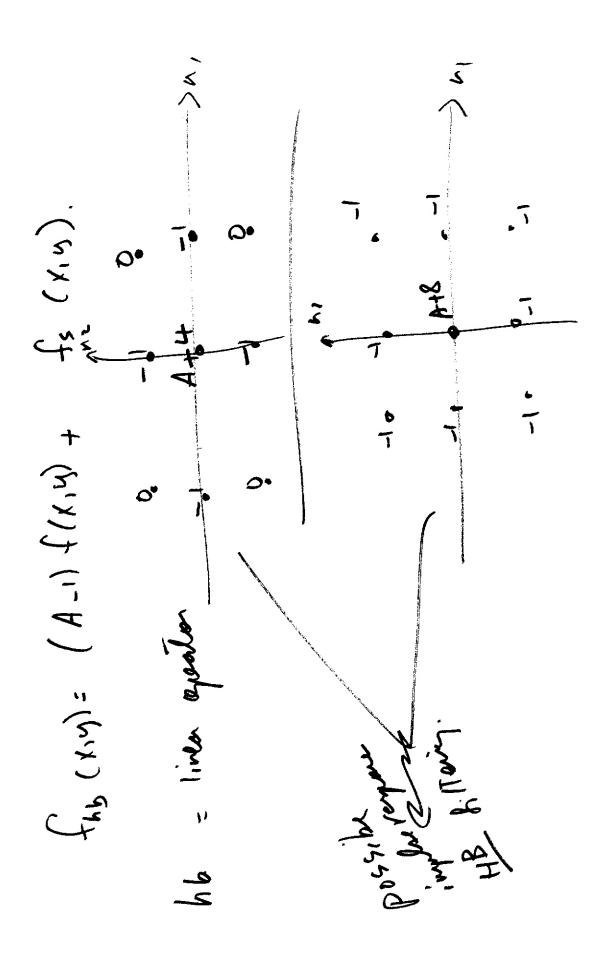
CAF = bluned.

F(x,y)

highboart Kitery

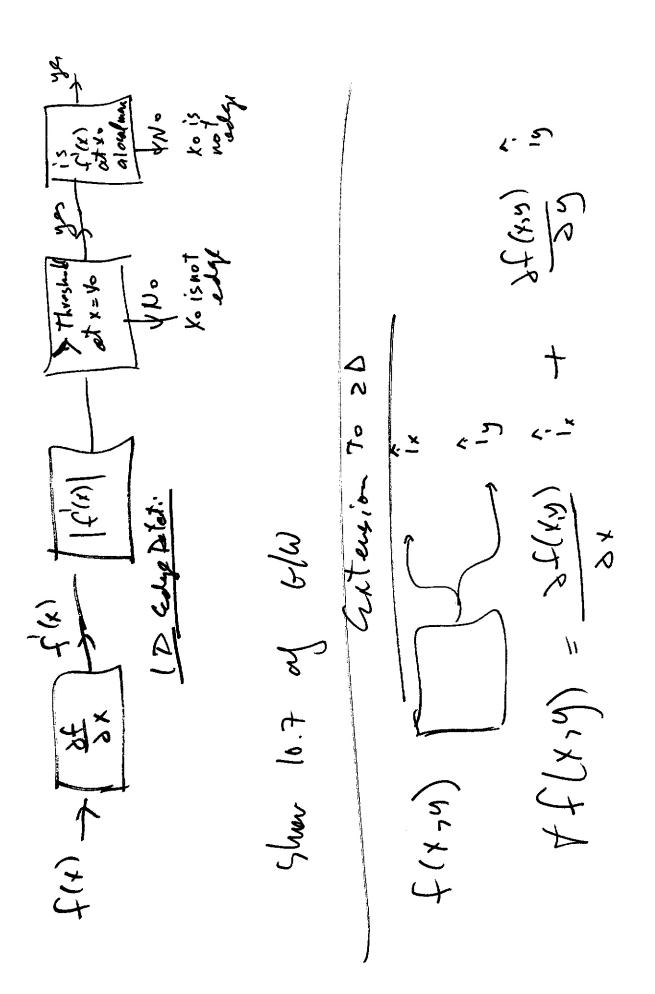
(Kx) j General verison unshap masking.

t (K2y) = A f(K5y) -



Using brooket for Eulenth 5 First devinative

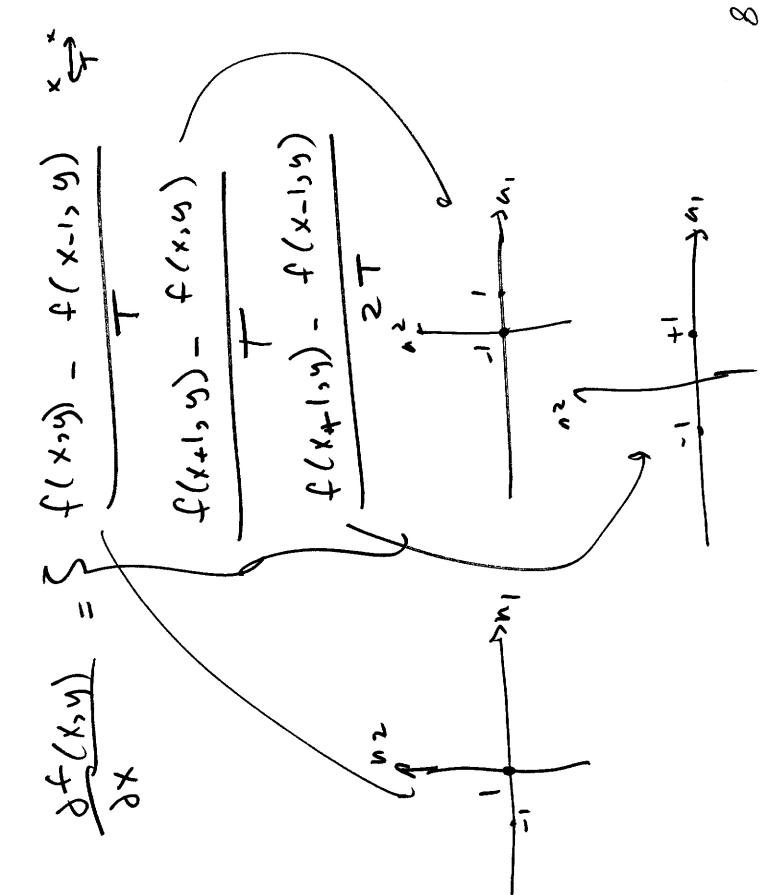
U; Chut Marr. litely an early - de 1 xe ti Derivative esty Detection ななる Greatlest Method: 2) 2

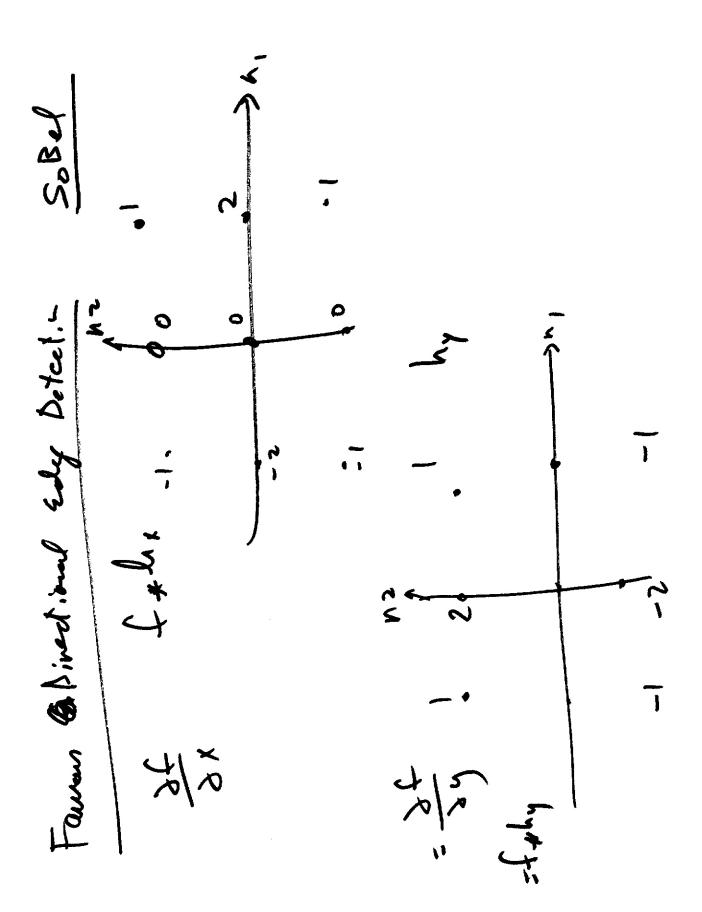


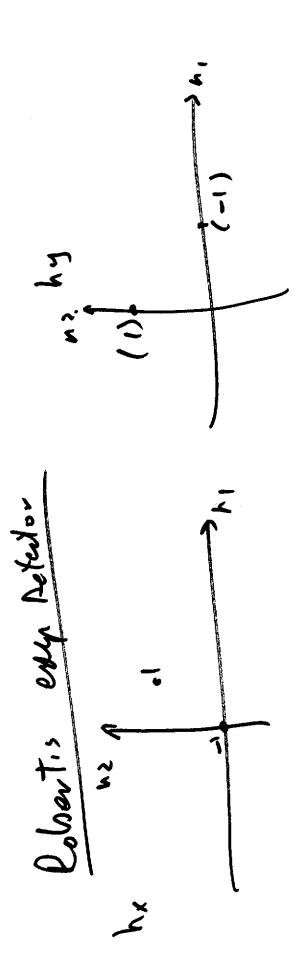
((h(1))) (+0,40) in Morizentul direction, but (a) It (Vf(x,y) has a local max declar (x. 14.) not au est. (a/10x) かりな一十つかり vertial

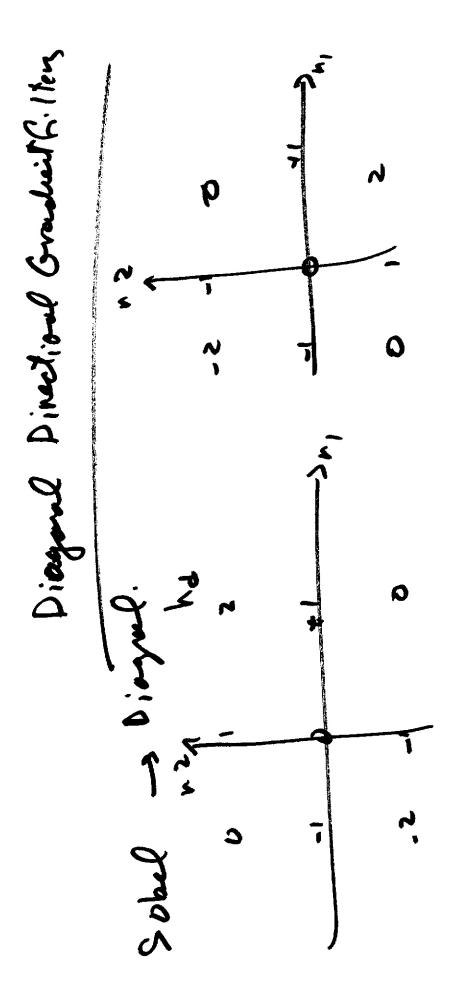
(x, y, at (10,90) is vertical direction but not howized that (x,90) an edge. when I st (x,50) an edge. when I st (x,50) . The st (x,50) hours (h) If (4/4/4) (fres a 10000 nous (36135)

Directional Gundred Ely Batelons Longerth eng sticken) 24(K,5) Towards a particular direction. × couple vertical elg:

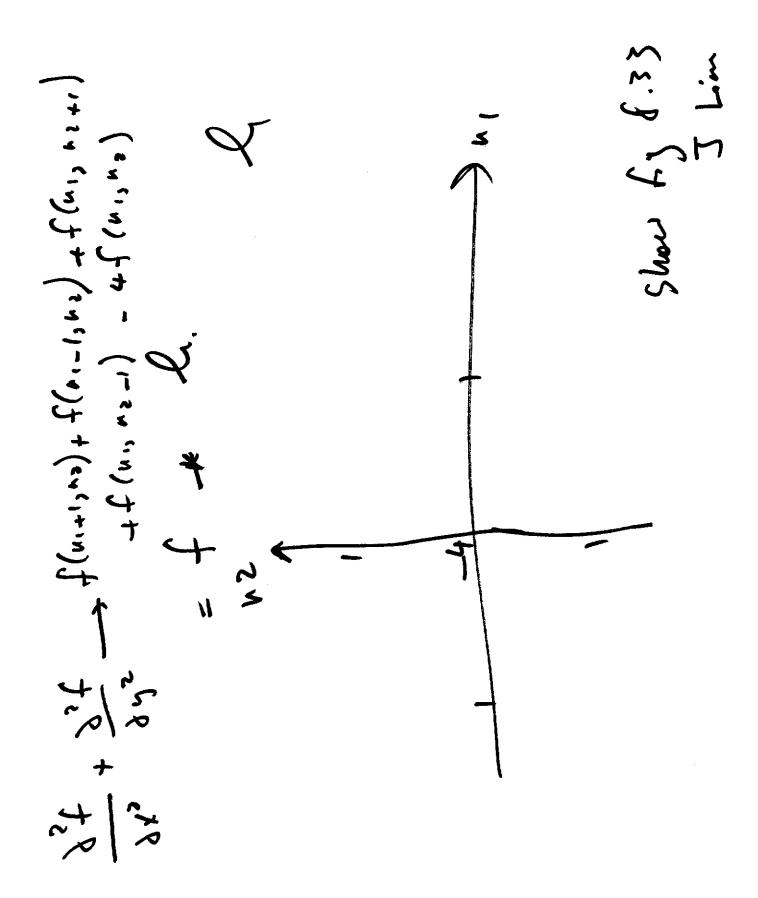








(6,47) 250 (n,-1, n) f+(24514) (M 1, M 2) + 2- (24(j+)4) f. (M1, N2) (Kxx) t ij (h < x) }



7 (K1. K2) Ki= M. -M Kz= Az - A (2/W+1)2 k mp = (2 u (1 m) Jm 10 cal mean

5 (f(k, k) - m(k, v) ×+ : x × W beal variano.

(2M+1)2 Ki=n,-M Kz=nz.M 6 (h1, h2)=

cateral and (4,9 hz) (# W2) X (F W 2)

(" " " " " ") 8 6(1,4) Sheplatetin haplacian of bauma / 2 h(k,n), な(メンツ) 川(アン、ノンハ)ニ コロ 1(K))= e (K>9) * * ダベンナ ((x') + = Laplacion

$$\frac{1}{\sqrt{\frac{L(K_1 y)_2}{L(K_1 y)_2}}} = \frac{-(\chi^2 + y^2)/2\pi 6^2}{(2\pi 6^2)^2} \left(\frac{\chi^2 + y^2 - 2\pi 6^2}{(2\pi^2 + \lambda^2 y)/2} \right) \\
= \left\{ \left\{ \left\{ \left\{ \right\} \right\} \right\} = -2\pi 6 = -2$$