- Consider the elements in the window 3x3 1 1 0 2 4 1
- Find the x-direction derivative: Subtract the first row from the Third row using the mask.

$$Gx=(z_7+2z_8+z_9)-(z_1+2z_2+z_3)$$
  
 $Gx(1,1)=(2+(2*4)+1)-(1+(2*2)+2)=4$ 

 Find the y-direction derivative: Subtract the first column from the Third column using the mask.

Gy=
$$(z_3+2z_6+z_9)$$
- $(z_1+2z_4+z_7)$   
Gy $(1,1)$ = $(2+(2*0)+1)$ - $(1+(2*1)+2)$ = -2

Find the Gradient:

$$Gx^2=16$$
.  $Gy^2=4$   
 $\Delta f=[16+4]^{-1/2}=(20)^{-1/2}$ , ie.  $f(1,1)=4.4721$ .

The procedure is done for the whole image matrix.

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**Fouad Sabry** 



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