Example $f(x,y)=(x+y)(x-y)$

Ordered list	x=2	Backward Differentiation				
	y=1	start	k=5	k=4	k=3	end
$h_1=x$	$h_1=2$	$F_1=0$		+3	+1	= 4
$h_2=y$	$h_2=1$	$F_2=0$		-3	+1	=-2
$h_3=h_1+h_2$	$h_3=3$	$F_3=0$	+1			= 1
$h_4=h_1-h_2$	$h_4=1$	$F_4=0$	+3			= 3
$h_5=h_3h_4$	$h_5=3$	$F_5=1$				= 1

where r=5, n=2

$\partial f(x,y)/\partial x=4$
$\partial f(x,y)/\partial y=-2$