

* Graph of f(x,y) = XTAX = ax2+2bxy+cy2 Exaple Lot A = [26] So f(a,y) = 2x2 +12xy +7y2 > Not Positivo definite live. At has a <u>Saddle</u> point. Point on the Surface with a enelitive minima dong one axial direction and greative maxima dong the crossing/ (Jess) # Condition for minima -> finst derivative Zeo du =0 -> Second dividive Positive. Du 70 f(x, x2 --- xn) forst derivetive is zu for mining > Matorix of 2nd derivative 1s Pos definit for minima

