11. 7 Notes

- f(x, y) has local minimum (maximum) at (a, b) if $f(x, y) \geq (\leq) f(a, b)$ when (x, y) is near (a, b).

- If f has focal maximum/minimum and is 31 FF evertistic at (a_1b) , then $f_{\infty}(a_1b) = 0$ and $f_{\gamma}(a_1b) = 0$.

- Second derivative test:

D=0 > no information