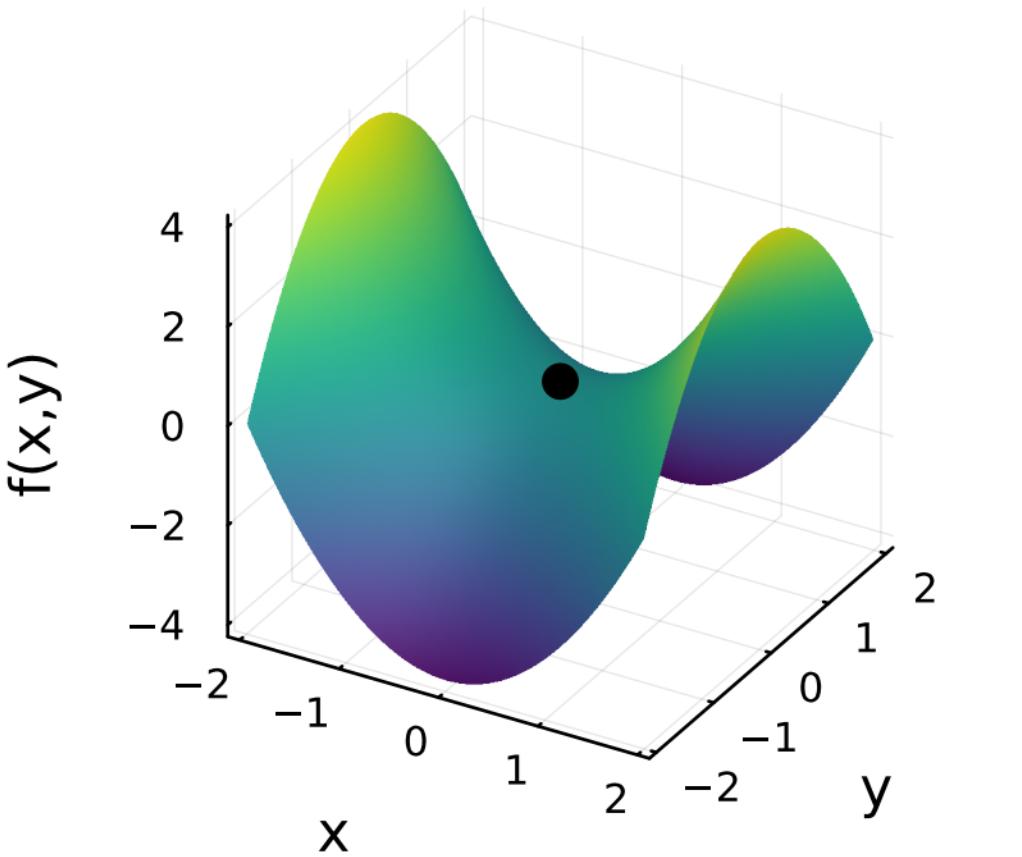
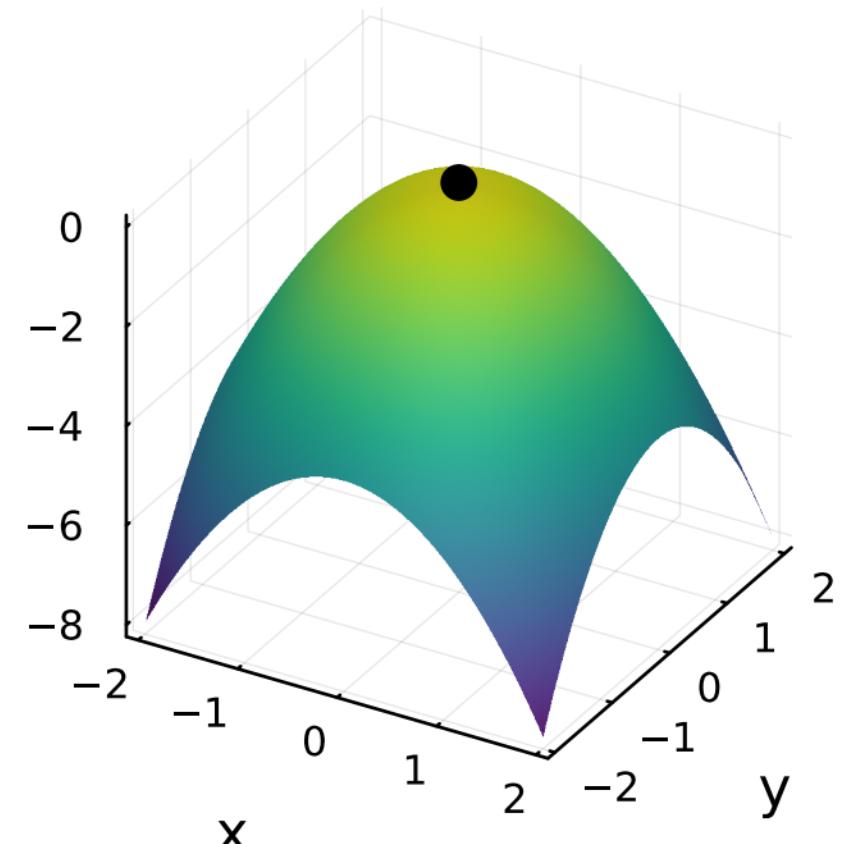


Saddle: $f(x, y) = x^2 - y^2$



Local max: $f(x, y) = -x^2 - y^2$



Local min: $f(x, y) = x^2 + y^2$

