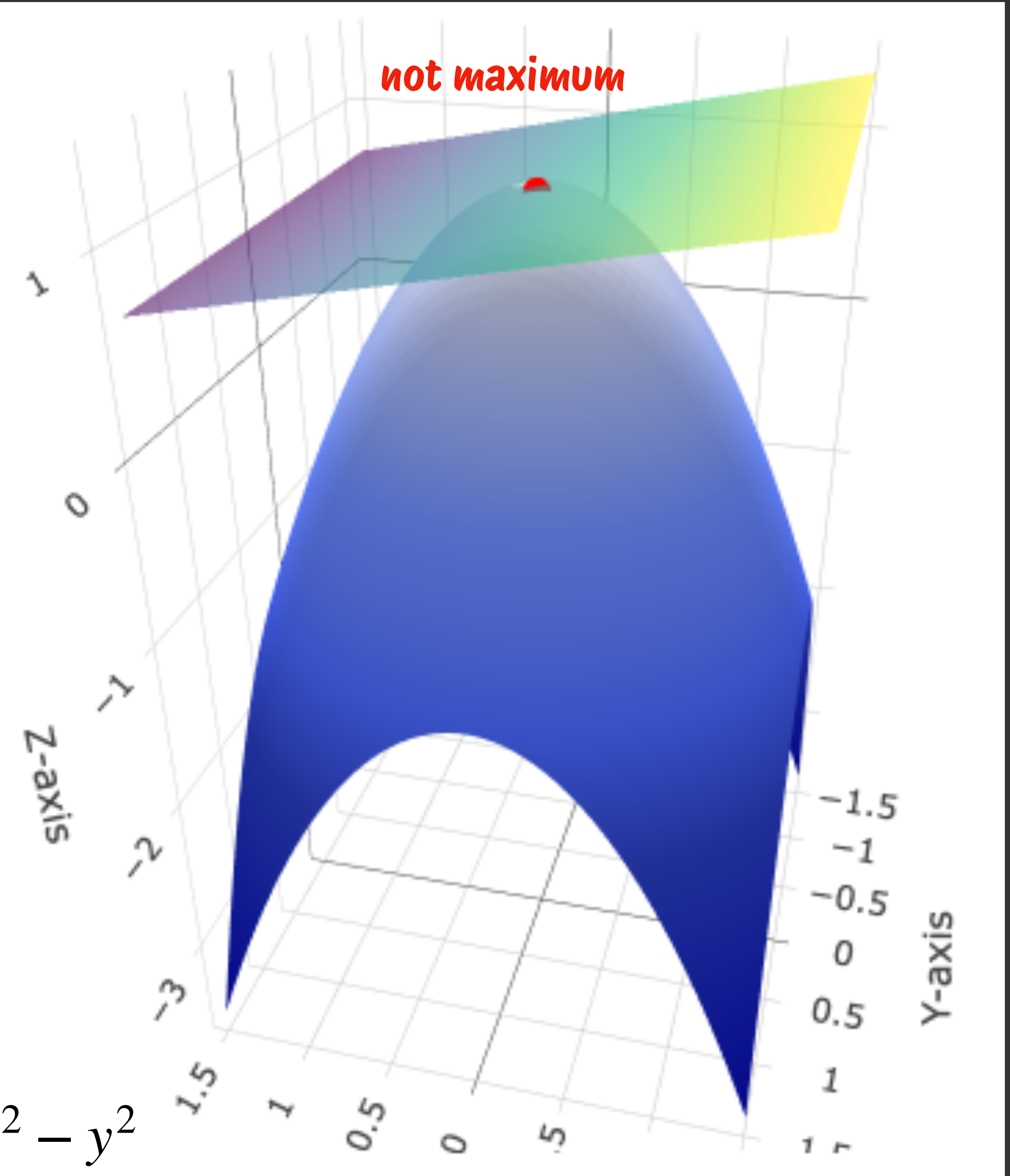
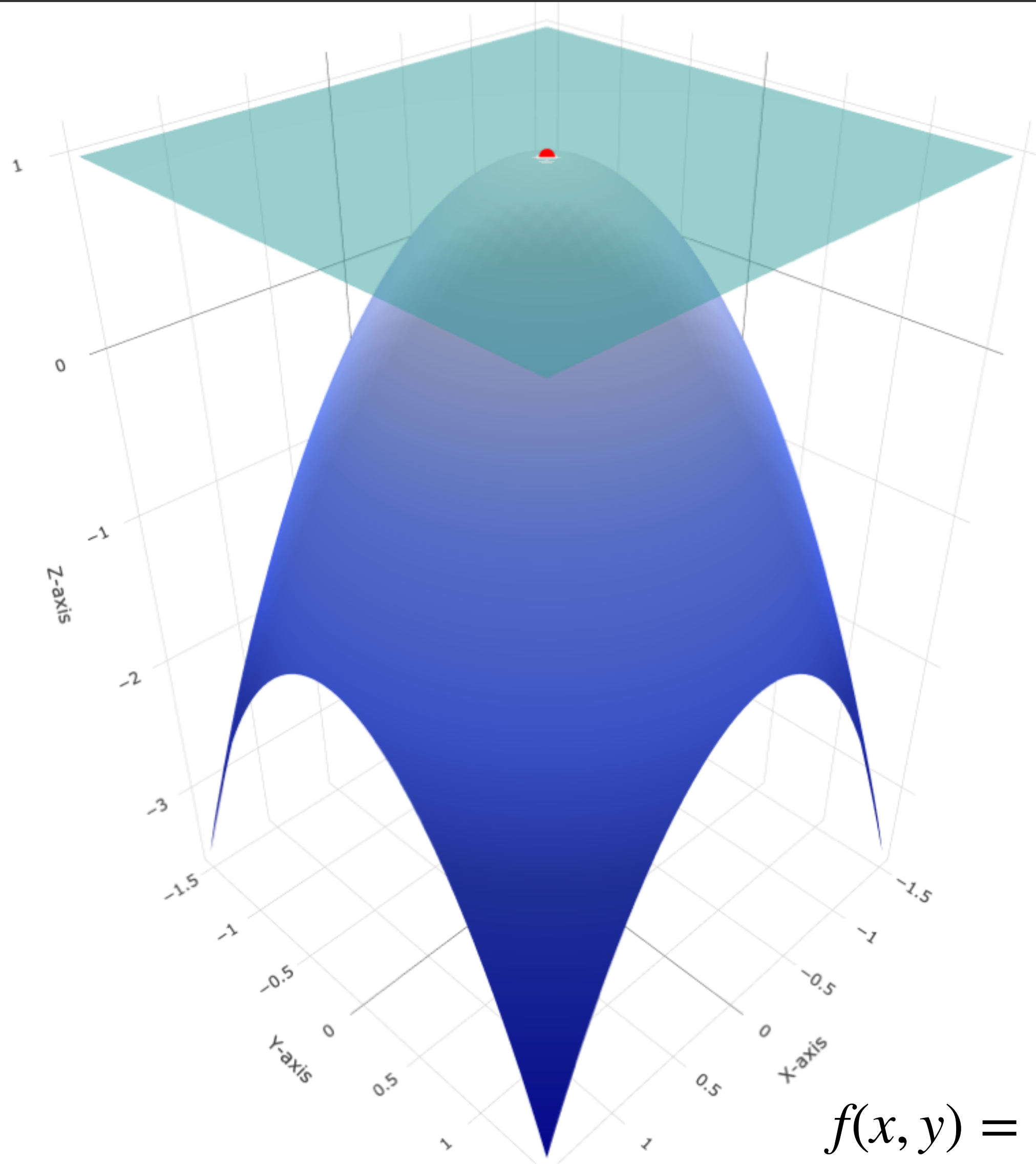


# optimization



$$f(x, y) = 1 - x^2 - y^2$$

# partial derivatives

A partial derivative is the derivative of a multivariable function with respect to one variable while treating all other variables as constants.