

MATH 2130 – Tutorial Problems, Thu Mar 1

Critical Points and Extreme Values

Example. Let $f(x, y) = y^4 + x^2y + x^2$. Find all critical points of f , and classify them as relative minima, relative maxima, saddle points, or none of these.

Example. Let $f(x, y) = x - |y - 2|$. Find all critical points of f , and classify them as relative minima, relative maxima, saddle points, or none of these.