GLOBAL EXTREMA HANDOUT

MAY 20, 2019

Exercise 1. Let f(x,y) = 1 + 4x - 5y and let *D* be the closed triangular region with vertices (0,0), (2,0), and (0,3). Find the global extrema of f on D.

Exercise 2. Let $f(x,y) = x^2 + y^2 + x^2y + 4$ and let $D = \{(x,y) : |x| \le 1, |y| \le 1\}$. Find the global extrema of f on D.

Exercise 3. Find the large as possible.	three positive numbers	s whose sum is 100 and	d whose product is as