

Math 3298 Worksheet 12: Maxima/minima in a domain

Group members (2 to 4): _____

(1) Find the global maxima and minima of the function

$$f(x, y) = 3x^2 + 3xy + 6y^2 - 3x - 5y \text{ on the region } x \geq 0, y \geq 0, y \leq 1 - x^2.$$