

Universidad de Costa Rica
EC3201 - Teoría Macroeconómica 2

Practice 1: Constraint optimization

Ana Chacón Gairaud

Randall Romero Aguilar

II Semestre 2016

Last updated: August 7, 2016

1. Find the maximum of the function

$$f(x, y) = -(x - 4)^2 - (y - 4)^2$$

subject to $x + y \leq 4$.

2. Find the maximum of the function

$$f(x, y) = -(x - 4)^2 - (y - 4)^2$$

subject to $x + y \leq 4$ and $x \leq 1$.