Practice 1: Constraint optimization

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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 $x \leq 1$.