2020 SPRING CALCULUS 0412: QUIZ 12 (MAY 14, 2020)

NAME: STUDENTS ID:

1. (5 points) Find the absolute maximum and minimum values of $f(x, y) = x^2 + y^2 - 2x$ on the set D, where D is the closed triangular region with vertices $(2, 0)$, $(0, 2)$ and $(0, -2)$.

2. (5 points) Find three positive numbers whose sum is 100 and whose product is a maximum.