

2020 SPRING CALCULUS 0412: QUIZ 8 (APRIL 23, 2020)

NAME:

STUDENTS ID:

1. (5 points) Find the domain of the function $g(x, y) = \frac{\ln(2-x)}{1-x^2-y^2}$.

2. (5 points) Find the limit, if exists, or show that the limit does not exist: $\lim_{(x,y) \rightarrow (0,0)} \frac{x^2 + \sin^2 y}{2x^2 + y^2}$.