

2020 SPRING CALCULUS 0412: QUIZ 9 (APRIL 27, 2020)

NAME:

STUDENTS ID:

1. (5 points) Find the first partial derivatives of the function $u = \sqrt{x_1^2 + x_2^2 + \cdots + x_n^2}$.

2. (5 points) Find the indicated partial derivative $\frac{\partial^3 W}{\partial u^2 \partial v}$, where $W(u, v) = \sqrt{u + v^2}$.