2020 SPRING CALCULUS 0412: QUIZ 11 (MAY 11, 2020)

NAME: STUDENTS ID:

1. (5 points) Find equations of the tangent plane and the normal to $2(x-2)^2 + (y-1)^2 + (z-3)^2 = 10$ at $(3,3,5)$.

2. (5 points) If f is homogeneous of degree n, show that
$$f_x(tx, ty) = t^{n-1} f_x(x, y).$$