MATH 102 - 14 (SPRING 2024)
QUIZ 4

Full name:_____ **Student number:**_____   **Total:** ____ / *10 pts.*

(1) Find a linear approximation to $f(x, y) = e^x \cos(xy)$ at the point $(0,0)$ and use it to approximate $(0.1, -0.2)$.

(2) For the function in part (1), are there any points at which the tangent plane of f is parallel to the $x - y$ plane? If so, find them.

Solution.