

2020 SPRING CALCULUS 0412: QUIZ 18 (JUNE 11, 2020)

NAME:

STUDENTS ID:

1. (5 points) Evaluate $\iint_R (x^2 - xy + y^2) dA$, where R is the region bounded by the ellipse $x^2 - xy + y^2 = 2$.

2. (5 points) Evaluate $\iint_R \sin(9x^2 + 4y^2) dA$, where R is the first quadrant bounded by the ellipse $9x^2 + 4y^2 = 1$.