

2020 SPRING CALCULUS 0412: QUIZ 15 (MAY 25, 2020)

NAME:

STUDENTS ID:

1. (5 points) Find the value  $\iint_D y \, dA$ , where  $D$  is the triangle region with vertices  $(0, 0)$ ,  $(1, 1)$  and  $(4, 0)$ .

2. (5 points) Find the value of  $\iint_R \frac{y^2}{x^2+y^2} \, dA$ , where  $D$  is the annulus region given by  $\{(x, y) \mid x^2 + y^2 \leq b\} \setminus \{(x, y) : x^2 + y^2 \leq a\}$ , for  $0 < a < b$ .