## Name:

1. Evaluate  $\iint_D e^{x^2+y^2} dA$ , where D is the region bounded by the circles  $x^2+y^2=4$  and  $x^2+y^2=9$ .

2. Calculate the Jacobian of the transformation  $T(u, v) = (u^2v, uv^2)$ .