- 1. Let D be the unit disk centered about the origin in xy-space. Let R be the right half of D. Identify the sign of  $\int_R 5y \; dA$ . Provide brief justification for your choice.
  - o positive o zero o negative

2. Reverse the order of integration for  $\int_0^3 \int_{x^2}^9 x \sin(y^2) \ dy \ dx$ . Do **not** evaluate the integral.

