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

2. Reverse the order of integration for $\int_0^1 \int_x^1 \sin(y^2) \ dy \ dx$. Do **not** evaluate the integral.

