

## Quiz 4

Name: \_\_\_\_\_

1. Calculate the iterated integral  $\int_0^2 \int_0^4 y^3 e^{2x} dy dx$ . Show your work.

2. Evaluate the double integral  $\iint_D xy dA$ , where  $D$  is enclosed by curves  $y = x^2$  and  $y = 3x$ . Show your work.