

## Math 324 B, Fall 2018, Quiz 0

You have 6 minutes to complete the quiz. Each problem is worth 5 points.

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

1. Evaluate the integral

$$\iint_R (xy + x^2) dA,$$

where  $R$  is the rectangle bounded by the lines  $x = 0, x = 1, y = -2, y = 1$ .

2. Do these two integrals evaluate to the same thing or not? Explain.

$$\int_0^9 \int_{-2}^4 x^2 e^{xy \sin(x)} dx dy$$

$$\int_{-2}^4 \int_0^9 z^2 e^{xz \sin(z)} dx dz$$