

# Quiz 7, MAT329, Fall 2015

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

- a. Whose theorem allows us to switch the order of integration, provided the integrand is sufficiently well-behaved?
- b. Illustrate with a diagram the difference between Type I and Type II regions for integrals, by drawing one of each **which is not the other**.
- c. Describe **one way** in which Prof. Long attempted to generalize the trapezoidal rule from univariate calculus to bivariate functions (in particular, discrete data). (Big picture stuff – no need for formulas)
- d. Give an example of the use of a “mask” to integrate discrete data.