# Quiz 5

MATH 20C, SUMMER SESSION I 2017

NAME: PID: SECTION:

The use of electronic devices, textbooks, or extra notes is not allowed for this quiz.

**Problem 1.** Find all critical points of $f(x, y) = x^2 - y^2$ and use the second derivative test to classify the critical points as either a local min, a local max, or a saddle point. (3 points)

**Problem 2.** Evaluate the following double integral (3 points):

$$\int_{-1}^{1} \int_{0}^{1} x \arctan(y) dy dx$$