

Math 233 - Quiz 9

April 7, 2022

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary. This quiz is due April 12.

1. (4 points) Find and classify the critical points of $f(x, y) = x^3 - 6xy + y^3$.

Turn over.

2. (4 points) Find and classify the critical points of $g(x, y) = (x + y)(xy + 1)$.

3. (2 points) Find and classify the critical points of $F(x, y) = 7y + xy - y^2 - 2x^2$.