

MA 234-01
§3.7, 3.9, 4.1

Quiz #3

score

Name: _____

18 April 1997

Let $f(x, y) = x^4 - 2x^2 + y^2 + 1$.

1. Find all of the critical points for f . (*8 points*)

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2. For each critical point, determine if it is a local maximum, a local minimum, or a saddle point. Explain your reasoning. (*12 points*)