Math 1314 ONLINE
Popper 14, Part 2

Enter your answers by 11:59 p.m. on 4/24/13. If the answer is not listed, choose E.

For these questions, suppose $f(x, y) = 2x^2 - xy + 3y^2 - 4x - 8y + 10$.

1. Find f_x.

A. $-x + 6y - 8$ B. $4x - 1 + 6y$ C. $4x - y + 6$

2. Find f_{xy}.

A. -1 B. 6 C. 4

3. Find the critical point.

A. (1.3913, 1.5656) B. (1.3913, 1.5552) C. (1.3913, 1.5652)

4. Find D.

A. 25 B. 24 C. 23 D. 22

5. Does the function have a relative max, a relative min, a saddle point or none of these at the critical point?

A. relative max B. relative min C. saddle point D. none of these.