

MATH 261 Quiz 9

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

Student number: \_\_\_\_\_

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Show all work. 5 points each.

1) Find the critical point(s) for  $f(x, y) = 9 - 2x + 4y - x^2 - 4y^2$ .

2) Use the second Derivative test to determine if the critical points from above are local min, local max, or a saddle points.