

MA 224 - Quiz 8 (8 minutes)

Please write your name and section number, and put your final answers in a box. For full credit, please show your work!

1. (7 pts) Find all critical points, BUT DO NOT CLASSIFY THEM

$$f(x, y) = (x + y)e^{1-x-y^2}$$

2. (3 pts) If $g(s, t)$ has the property that $g_{ss} = -1$, $g_{tt} = -2$ and $g_{st} = -1$, what can you say about any critical point?