

1. Let  $f(x, y) = x^2 + 2xy + y^2$ .
  - (a) (4 points) Find all the second order partial derivatives.
  - (b) (4 points) Find the second order Taylor's approximation at  $(x_0, y_0) = (1, 0)$ .
2. Let  $f(x, y) = 2x^2 + 3xy + 2y^2$ .
  - (a) (4 points) Find all the second partials of  $f$ .
  - (b) (4 points) Classify all the critical points, give their  $xy$  pairs.
3. Find the extrema of  $f(x, y) = x^2 + 2xy + 2y^2$ , subject to the constraint  $2x^2 + 3y^2 = 12$ .
 

Give 4 equations, solve.
4. (a) (4 points) Consider two functions,  $f: \mathbb{R}^2 \rightarrow \mathbb{R}^2$  and  $g: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ . Find the  $J$  for  $f$  and see how it relates the compositions  $f \circ g$ . Find that  $J$  gives a linear scale factor that leads to differentiability, show the other side too  $J(g \circ f) = J(g)J(f)$ .
 

(b) (4 points) Let  $f(x, y) = 2x^2 + 3xy + 2y^2$  and  $g(x, y) = 2x^2 + 3xy + 2y^2$ . Use these values compute  $J(g \circ f)$  at  $(1, 1)$ .
5. (a) (4 points) Find the value of integral  $\int_0^1 \int_0^1 (x + y) dx dy$  and  $\int_0^1 \int_0^1 (x + y) dy dx$  in the direction of  $(1, 1, 1)$ .
 

(b) (4 points) Find the volume given all the four surfaces  $x^2 + y^2 = 1$  and the planes  $[0, 2, 0]$ .

Give 4 equations, solve.
6. (a) (4 points) Let  $u = 2x^2 + 3y^2$ . Find the extrema of the integral given at  $(1, 1, 1)$ .
 

(b) (4 points) Let  $f(x, y) = 2x^2 + 3xy + 2y^2$ . Compute the derivative of  $f(x, y)$ .
7. (4 points) Determine the equations of the tangent lines to the path
 
$$f(x, y) = (x^2 + y^2)^2$$
 at  $(1, 1)$ .

Give 4 equations, solve.

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