

Practice Sheet - 11

Topic - Partial Derivatives and Differentiability

1. Find the partial derivatives $\frac{\partial f}{\partial x}$ and $\frac{\partial f}{\partial y}$:

a. $f(x, y) = 2x^2 - 3y - 4$

b. $f(x, y) = 5xy - 7x^2 - y^2 + 3x - 6y + 2$

c. $f(x, y) = \sqrt{x^2 + y^2}$

d. $f(x, y) = e^x \ln y$

e. $f(x, y) = \cos^2(3x - y^2)$

2. Find the second order partial derivatives for the functions

a. $f(x, y) = x + y + xy$

b. $f(x, y) = xe^y + y + 1$

c. $f(x, y) = \frac{x - y}{x^2 + y}$

3. Use the definition of partial derivatives to compute the partial derivatives $\frac{\partial f}{\partial x}$ and $\frac{\partial f}{\partial y}$ of the functions at the specified points

a. $f(x, y) = 1 - x + y - 3x^2y$, at $(1, 2)$

b. $f(x, y) = \sqrt{2x + 3y - 1}$, at $(-2, 3)$

c. $f(x, y) = \begin{cases} \frac{\sin(x^2 + y^4)}{x^2 + y^2}, & (x, y) \neq (0, 0) \\ 0, & (x, y) = (0, 0) \end{cases}$, at $(0, 0)$

4. Let $f(x, y) = \begin{cases} \frac{xy^2}{x^2 + y^4}, & (x, y) \neq (0, 0) \\ 0, & (x, y) = (0, 0) \end{cases}$. Show that $\frac{\partial f}{\partial x}(0, 0)$ and $\frac{\partial f}{\partial y}(0, 0)$ exist, but function f is not differentiable at $(0, 0)$.

5. Let $f(x, y) = \begin{cases} 0, & x^2 < y < 2x^2 \\ 1, & \text{otherwise} \end{cases}$. Show that $f_x(0, 0)$ and $f_y(0, 0)$ exist, but function f is not differentiable at $(0, 0)$.

Partial Derivative Practice Problems

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