

Review guide for midterm 2 in Math 233

March 30, 2009

Midterm 2 covers material that begins approximately with the definition of partial derivatives in Chapter 14.3 and ends approximately with methods for calculating the double integral of a function $f(x, y)$ over a domain D described in the xy -plane. See the updated course web page for the exact material covered on this exam.

This material begins with the definition of partial derivatives in Chapter 14.3 and ends with methods for calculating the double integral of a function $f(x, y)$ over a domain D described in the xy -plane. See sections 14.1 and 14.2 for material on continuity of functions.

Definition 1 (Partial Derivatives) If f is a function of two variables, its **partial derivatives** are the functions f_x and f_y defined by

$$f_x(x, y) = \lim_{h \rightarrow 0} \frac{f(x+h, y) - f(x, y)}{h}$$
$$f_y(x, y) = \lim_{h \rightarrow 0} \frac{f(x, y+h) - f(x, y)}{h}.$$

We have the following rule for calculating partial derivatives.

1. To find f_x , regard y as a constant and differentiate $f(x, y)$ with respect to x .
2. To find f_y , regard x as a constant and differentiate $f(x, y)$ with respect to y .

Example 2 Calculate f_x , f_y for $f(x, y) = x^2 e^{xy} + y^2$.

Solution :

$$f_x(x, y) = 2xe^{xy} + x^2 e^{xy} y = 2xe^{xy} + x^2 ye^{xy}$$
$$f_y(x, y) = x^2 e^{xy} x + 2y = x^3 e^{xy} + 2y.$$

Definition 3 (Second Partial Derivatives) For $z = f(x, y)$, we use the following notation:

$$(f_x)_x = f_{xx} = \frac{\partial}{\partial x} \left(\frac{\partial f}{\partial x} \right) = \frac{\partial^2 f}{\partial x^2} = \frac{\partial^2 z}{\partial x^2}$$
$$(f_x)_y = f_{xy} = \frac{\partial}{\partial y} \left(\frac{\partial f}{\partial x} \right) = \frac{\partial^2 f}{\partial y \partial x} = \frac{\partial^2 z}{\partial y \partial x}$$
$$(f_y)_x = f_{yx} = \frac{\partial}{\partial x} \left(\frac{\partial f}{\partial y} \right) = \frac{\partial^2 f}{\partial x \partial y} = \frac{\partial^2 z}{\partial x \partial y}$$
$$(f_y)_y = f_{yy} = \frac{\partial}{\partial y} \left(\frac{\partial f}{\partial y} \right) = \frac{\partial^2 f}{\partial y^2} = \frac{\partial^2 z}{\partial y^2}$$

Example 4 Find the second partial derivatives of

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

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1 - Hominoids to Hominins Chapter Primate Evolution Chapter Assessment Questions Answer: The foramen magnum is the hole in the skull where the spine extends from the brain. It is in ... Chapter 16 Primate Evolution 1. When hominids moved from living primarily in treetops to living on the ground, they became _____. Need a Hint? ; 1. When hominids moved from living primarily ... Chapter 15 and 16 Study Guide Answers Chapter 15 and 16 Study Guide Answers. Section 15-1. VOCABULARY REVIEW. 1. Evolution is the development of new types of organisms from preexisting types of ...