

## 14 □ PARTIAL DERIVATIVES

### 14.1 Functions of Several Variables

$$1. (a) f(x, y) = \frac{x^2 y}{2x - y^2} \Rightarrow f(1, 3) = \frac{1^2(3)}{2(1) - 3^2} = -\frac{3}{7}$$

$$(b) f(-2, -1) = \frac{(-2)^2(-1)}{2(-2) - (-1)^2} = \frac{4}{5}$$

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

$$(d) f(x, x) = \frac{x^2 x}{2x - x^2} = \frac{x^3}{x(2 - x)} = \frac{x^2}{2 - x}$$

$$2. (a) g(x, y) = x \sin y + y \sin x \Rightarrow g(\pi, 0) = \pi \sin 0 + 0 \sin \pi = \pi \cdot 0 + 0 \cdot 0 = 0$$

$$(b) g\left(\frac{\pi}{2}, \frac{\pi}{4}\right) = \frac{\pi}{2} \sin \frac{\pi}{4} + \frac{\pi}{4} \sin \frac{\pi}{2} = \frac{\pi}{2} \left(\frac{\sqrt{2}}{2}\right) + \frac{\pi}{4}(1) = \frac{\pi(\sqrt{2} + 1)}{4}$$

$$(c) g(0, y) = 0 \sin y + y \sin 0 = 0 + y \cdot 0 = 0$$

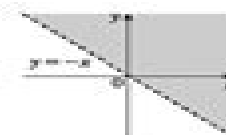
$$(d) g(x, y + h) = x \sin(y + h) + (y + h) \sin x$$

$$3. (a) g(x, y) = x^2 \ln(x + y) \Rightarrow g(3, 1) = 3^2 \ln(3 + 1) = 9 \ln 4$$

$$(b) \ln(x + y) \text{ is defined only when } x + y > 0 \Rightarrow y > -x.$$

Thus, the domain of  $g$  is  $\{(x, y) \mid y > -x\}$ .

$$(c) \text{ The range of } \ln(x + y) \text{ is } \mathbb{R}, \text{ so the range of } g \text{ is } \mathbb{R}.$$

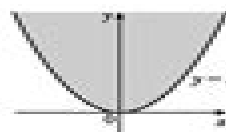


$$4. (a) h(x, y) = e^{\sqrt{y-x^2}} \Rightarrow h(-2, 5) = e^{\sqrt{5-(-2)^2}} = e^{\sqrt{1}} = e$$

$$(b) \sqrt{y-x^2} \text{ is defined only when } y-x^2 \geq 0 \Rightarrow y \geq x^2.$$

Thus, the domain of  $h$  is  $\{(x, y) \mid y \geq x^2\}$ .

$$(c) \text{ We know } \sqrt{y-x^2} \geq 0 \Rightarrow e^{\sqrt{y-x^2}} \geq 1. \text{ Thus, the range of } h \text{ is } [1, \infty).$$



$$5. (a) F(x, y, z) = \sqrt{y} - \sqrt{x-2z} \Rightarrow F(3, 4, 1) = \sqrt{4} - \sqrt{3-2(1)} = 2 - 1 = 1$$

$$(b) \sqrt{y} \text{ is defined only when } y \geq 0. \sqrt{x-2z} \text{ is defined only when } x-2z \geq 0 \Rightarrow x \leq \frac{1}{2}z. \text{ Thus, the domain is } \{(x, y, z) \mid x \leq \frac{1}{2}z, y \geq 0\}, \text{ which is the set of points on or below the plane } x = \frac{1}{2}z \text{ and on or to the right of the } xz\text{-plane.}$$

$$6. (a) f(x, y, z) = \ln(x - \sqrt{x^2 + y^2}) \Rightarrow f(4, -3, 6) = \ln(6 - \sqrt{4^2 + (-3)^2}) = \ln(6 - \sqrt{25}) = \ln 1 = 0$$

$$(b) \ln(x - \sqrt{x^2 + y^2}) \text{ is defined only when } x - \sqrt{x^2 + y^2} > 0 \Rightarrow x > \sqrt{x^2 + y^2} \Rightarrow x^2 > x^2 + y^2. \text{ Thus, the domain is } \{(x, y, z) \mid x > \sqrt{x^2 + y^2}\}, \text{ which is the set of points inside the top half of the cone } x^2 = x^2 + y^2.$$

# Limits And Derivatives Solutions Manual James Stewart

**James Stewart**



## Limits And Derivatives Solutions Manual James Stewart:

*Complete Solutions Manual for Stewart's Calculus, Third Edition* James Stewart, 1995      *Student's Solutions Manual for Single Variable Calculus, Fifth Edition* [by] James Stewart Daniel D. Anderson, 2003 Provides completely worked out solutions to all odd numbered exercises within the text giving students a way to check their answers and ensure that they took the correct steps to arrive at an answer      **Complete Solutions Manual for Stewart's Multivariable Calculus, Fourth Edition** Dan Clegg, James Stewart, Barbara Frank, 1999      **Calculus** James Stewart, 1995 James Stewart has carefully and completely revised the best selling calculus text in North America retaining the focus on problem solving the meticulous accuracy the patient explanations and the carefully graded problems that have made this text work so well for a wide range of students In the new edition Stewart has increased his emphasis on technology and innovation and has expanded his focus on problem solving and applications When writing his previous editions Stewart set out to bring some of the spirit of Polya to his presentation This resulted in the strategy sections in the First Edition and the Problems Plus and Applications Plus sections in the Second Edition Now in the Third Edition he extends the idea further with a new section on Principles of Problem Solving and new extended examples in the Problems Plus and Applications Plus sections Stewart makes a serious attempt to help students reason mathematically      *Mathematics Catalog 2005* Neil Thomson, 2004-10      *El-Hi Textbooks and Serials in Print*, 2003      *Single Variable Calculus with Vector Functions for AP\* Calculus* James Stewart, 2006-03 Stewart's SINGLE VARIABLE CALCULUS WITH VECTOR FUNCTIONS has the mathematical precision accuracy clarity of exposition and outstanding examples and problem sets that characterized all of James Stewart's texts In this new text Stewart focuses on problem solving using the pedagogical system that has worked so well for students in a wide variety of academic settings throughout the world      *Single Variable Calculus* James Stewart, 2003      **El-Hi Textbooks & Serials in Print, 2003**, 2003      *Geomatica*, 1997      **Reform Calculus** Assistant Professor of Theology Columba Stewart, Osb, Robert Burton, James Stewart, Dennis Garity, 1997 Reinforces student understanding of calculus with additional explanations worked out examples and practice problems      **Multivariable Calculus** James Stewart, 2003 Stewart's CALCULUS EARLY TRANSCENDENTALS Fifth Edition has the mathematical precision accuracy clarity of exposition and outstanding examples and problem sets that have characterized the first four editions Stewart retains the focus on problem solving and the pedagogical system that has made the book a favorite of students and instructors in a wide variety of colleges and universities throughout the world The structure of CALCULUS EARLY TRANSCENDENTALS Fifth Edition remains largely unchanged the sole exception being that the review of inverse trigonometric functions has been moved from an appendix to Section 1.6 Stewart has made hundreds of small improvements new examples additional steps in existing examples updating of data in existing examples and exercises new phrases and margin notes to clarify the exposition references to other sources and web sites redrawn art and references to the TEC CD Tools for Enriching Calculus These refinements ensure that

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