

# Multivariable Calculus Identities & Definitions PL. 1

**Del/Nabla:**  $\nabla = \left( \frac{\partial}{\partial x_0}, \frac{\partial}{\partial x_1}, \dots, \frac{\partial}{\partial x_n} \right)$

**Chain Rule:**  $f(x_0(t), x_1(t), \dots, x_n(t))$  or  $f(x_0, x_1, \dots, x_n) \circ \vec{g}(t); \vec{g}(t) = (u_0(t), u_1(t), \dots, u_n(t))$

1:  $\frac{df}{dt} = \frac{\partial f}{\partial x_0} \frac{dx_0}{dt} + \frac{\partial f}{\partial x_1} \frac{dx_1}{dt} + \dots + \frac{\partial f}{\partial x_n} \frac{dx_n}{dt} = \sum_{i=0}^n \frac{\partial f}{\partial x_i} \frac{dx_i}{dt}$

2:  $f'(\vec{g}(t)) = \nabla f(\vec{g}(t)) \cdot \vec{g}'(t)$

**Gradient:**  $f(x_0, x_1, \dots, x_n); \nabla f = \left( \frac{\partial f}{\partial x_0}, \frac{\partial f}{\partial x_1}, \dots, \frac{\partial f}{\partial x_n} \right)$

**Directional Derivative:**  $f(x_0, x_1, \dots, x_n); \vec{v} = (v_0, v_1, \dots, v_n)$

$\nabla_{\vec{v}} f = \nabla f \cdot \vec{v} = \frac{\partial f}{\partial x_0} v_0 + \frac{\partial f}{\partial x_1} v_1 + \dots + \frac{\partial f}{\partial x_n} v_n = \sum_{i=0}^n \frac{\partial f}{\partial x_i} v_i$

**Divergence:**  $\vec{f}(x_0, x_1, \dots, x_n); \nabla \cdot \vec{f} = \frac{\partial f_0}{\partial x_0} + \frac{\partial f_1}{\partial x_1} + \dots + \frac{\partial f_n}{\partial x_n} = \sum_{i=0}^n \frac{\partial f_i}{\partial x_i}$

**2D Curl:**  $f(x, y) = (P(x, y), Q(x, y)); \text{Curl}(f) = \frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y}$

**3D Curl:**  $f(x, y, z) = (P(x, y, z), Q(x, y, z), R(x, y, z))$

$\text{Curl}(f) = \nabla \times f = \det \begin{pmatrix} \hat{i} & \hat{j} & \hat{k} \\ \frac{\partial}{\partial x} & \frac{\partial}{\partial y} & \frac{\partial}{\partial z} \\ P & Q & R \end{pmatrix}$

$= \left( \frac{\partial R}{\partial y} - \frac{\partial Q}{\partial z} \right) \hat{i} - \left( \frac{\partial R}{\partial x} - \frac{\partial P}{\partial z} \right) \hat{j} + \left( \frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) \hat{k}$

**Laplacian:**  $f(x_0, x_1, \dots, x_n); \Delta f = \nabla^2 f = \nabla \cdot \nabla f$

$= \frac{\partial^2 f}{\partial x_0^2} + \frac{\partial^2 f}{\partial x_1^2} + \dots + \frac{\partial^2 f}{\partial x_n^2} = \sum_{i=0}^n \frac{\partial^2 f}{\partial x_i^2}$

**Jacobian:**  $\vec{f}(f_1(x_0, \dots, x_n), \dots, f_n(x_0, \dots, x_n))$

$J_{ij} = \frac{\partial f_i}{\partial x_j} \Leftrightarrow J = \left[ \frac{\partial \vec{f}}{\partial x_0} \cdot \frac{\partial \vec{f}}{\partial x_1} \cdots \frac{\partial \vec{f}}{\partial x_n} \right] = \begin{bmatrix} \frac{\partial f_0}{\partial x_0} & \cdots & \frac{\partial f_0}{\partial x_n} \\ \vdots & \ddots & \vdots \\ \frac{\partial f_m}{\partial x_0} & \cdots & \frac{\partial f_m}{\partial x_n} \end{bmatrix}$

# Multivariable Calculus Chapter 16

**William G. McCallum**



## Multivariable Calculus Chapter 16:

**Calculus Early Transcendentals, Multivariable** Michael Sullivan, Kathleen Miranda, 2018-11-27 Michael Sullivan and Kathleen Miranda have written a contemporary calculus textbook that instructors will respect and students can use. Consistent in its use of language and notation, Sullivan Miranda's Calculus offers clear and precise mathematics at an appropriate level of rigor. The authors help students learn calculus conceptually while also emphasizing computational and problem solving skills. The book contains a wide array of problems including engaging challenge problems and applied exercises that model the physical sciences, life sciences, economics, and other disciplines. Algebra weak students will benefit from marginal annotations that help strengthen algebraic understanding, the many references to review material, and extensive practice exercises. Strong media offerings include interactive figures and online homework. Sullivan Miranda's Calculus has been built with today's instructors and students in mind. Calculus Robert Smith, Roland Minton, 2011. Now in its 4th edition, Smith Minton Calculus offers students and instructors a mathematically sound text, robust exercise sets, and elegant presentation of calculus concepts. When packaged with ALEKS Prep for Calculus, the most effective remediation tool on the market, Smith Minton offers a complete package to ensure students' success in calculus. The new edition has been updated with a reorganization of the exercise sets, making the range of exercises more transparent. Additionally, over 1,000 new classic calculus problems were added. **Study Guide for Stewart's Multivariable Calculus** Richard St. Andre, 2003

**GATE Notes - Aerospace Engineering** Mocktime Publication, GATE Notes Aerospace Engineering Gate Exam Pattern Gate syllabus Gate Previous Papers Gate Questions *Complete Solutions Manual for Multivariable Calculus, Fifth Edition* Dan Clegg, James Stewart, Barbara Frank, 2003. This complete solutions manual contains detailed solutions to selected exercises in chapters 11-18 of Multivariable calculus fifth edition and chapters 10-17 of Calculus early transcendentals fifth edition. *Student's Solutions Manual for Multivariable Calculus* Jon Rogawski, 2011-06-24 Student's Solutions Manual for Multivariable Calculus GATE Question Bank - Mathematics Mocktime Publication, 2400 MCQs GATE Mathematics Chapterwise Question Bank Based on New Syllabus *Complete Solutions Manual for Stewart's Multivariable Calculus, Fourth Edition* Dan Clegg, James Stewart, Barbara Frank, 1999 **GATE Question Bank - Aerospace Engineering** Mocktime Publication, 2400 MCQs GATE Aerospace Engineering Chapterwise Question Bank Based on New Syllabus

Multivariable Calculus William G. McCallum, 1997. This innovative book is the product of an NSF funded calculus consortium based at Harvard University and was developed as part of the calculus reform movement. It is problem driven and features exceptional exercises based on real world applications. The book uses technology as a tool to help readers learn to think. **Thermodynamics and Energy Conversion** Henning Struchtrup, 2024-06-27. This comprehensive textbook covers engineering thermodynamics from beginner to advanced level. The presentation is concise with material for about three full term university courses on 700 pages without compromising breadth or depth. First and second law of thermodynamics are

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