

Calculus III Running Notes

Points of Interest in Multivariable Functions

Finding POI's: $\nabla f = 0$ when (x_0, y_0)
 End $D = f_{xx} \cdot f_{yy} - (f_{xy})^2$
 Case 1: $D > 0, f_{xx} > 0, f(x, y) \rightarrow$ local min
 Case 2: $D > 0, f_{xx} < 0, f(x, y) \rightarrow$ local max
 Case 3: $D < 0, f(x, y) \rightarrow$ neither. $P(x, y)$ is saddle point, "if $D < 0$ is negative" and the graph crosses the tangent plane at (x, y)
 Case 4: if $D = 0$, no information is given. The point (x, y) can be a local min, local max or a saddle point

Lagrange Multipliers

$\nabla f(x, y, z) = \lambda \nabla g(x, y, z)$ $g(x, y, z) = k$
 $f_x = \lambda g_x$ $f_y = \lambda g_y$ $f_z = \lambda g_z$

Triple Integrals

if f is continuous for the rectangular box $B = [a, b] \times [c, d] \times [e, f]$, then
 $\iiint_B f(x, y, z) \, dV = \int_a^b \int_c^d \int_e^f f(x, y, z) \, dz \, dy \, dx$
 Type I plane region:
 $\iiint f(x, y, z) \, dV = \int_a^b \int_c^d \int_{g_1(x, y)}^{g_2(x, y)} f(x, y, z) \, dz \, dy \, dx$
 Type II region:
 $\iiint f(x, y, z) \, dV = \int_c^d \int_a^b \int_{g_1(y, z)}^{g_2(y, z)} f(x, y, z) \, dx \, dy \, dz$

Double Integrals Over Rectangles

$R = [a, b] \times [c, d] = \{(x, y) \in \mathbb{R}^2 \mid a \leq x \leq b, c \leq y \leq d\}$
 $S = \{(x, y, z) \in \mathbb{R}^3 \mid 0 \leq z \leq f(x, y), (x, y) \in R\}$
 Definition:
 $\iint_R f(x, y) \, dA = \lim_{n \rightarrow \infty} \sum_{i=1}^n \sum_{j=1}^m f(x_{ij}^*, y_{ij}^*) \Delta A$

Double Integrals over General Regions

Type I:
 $D = \{(x, y) \mid a \leq x \leq b, g_1(x) \leq y \leq g_2(x)\}$
 $\iint_D f(x, y) \, dA = \int_a^b \int_{g_1(x)}^{g_2(x)} f(x, y) \, dy \, dx$
 Type II:
 $D = \{(x, y) \mid c \leq y \leq d, h_1(y) \leq x \leq h_2(y)\}$
 $\iint_D f(x, y) \, dA = \int_c^d \int_{h_1(y)}^{h_2(y)} f(x, y) \, dx \, dy$

Triple integrals in Cylindrical Co-ordinates

Cylindrical coordinate system:
 $x = r \cos \theta$ $y = r \sin \theta$ $z = z$
 Rectangular to cylindrical coordinates:
 $r = \sqrt{x^2 + y^2}$ $\theta = \arctan \frac{y}{x}$ $z = z$
 Combining with Triple Integral Equations:
 $\iiint f(x, y, z) \, dV = \int_a^b \int_c^d \int_{h_1(r, \theta)}^{h_2(r, \theta)} f(r \cos \theta, r \sin \theta, z) \, r \, dz \, dr \, d\theta$

Double Integrals in Polar Co-ordinates

$\iint_R f(x, y) \, dA = \iint_D f(r \cos \theta, r \sin \theta) \, r \, dr \, d\theta$
 $(r \cos \theta)^2 + (r \sin \theta)^2 = r^2$
 $r^2 \cos^2 \theta + r^2 \sin^2 \theta = r^2$
 $r^2 (\cos^2 \theta + \sin^2 \theta) = r^2 = r^2$

Triple integrals in Spherical Co-ordinates

ρ - ρ from origin ϕ - ϕ from z -axis θ - θ from x -axis
 Distance formula:
 $\rho^2 = x^2 + y^2 + z^2$
 In triple integral formula:
 $\iiint f(x, y, z) \, dV = \int_a^b \int_c^d \int_{h_1(\rho, \theta, \phi)}^{h_2(\rho, \theta, \phi)} f(\rho \sin \phi \cos \theta, \rho \sin \phi \sin \theta, \rho \cos \phi) \, \rho^2 \sin \phi \, d\rho \, d\theta \, d\phi$

Iterated Integrals

$\int_a^b \int_c^d f(x, y) \, dy \, dx$

Fubini's Theorem:

if $R = \{(x, y) \mid a \leq x \leq b, c \leq y \leq d\}$ — must be continuous rectangle!

Then:
 $\iint_R f(x, y) \, dA = \int_a^b \int_c^d f(x, y) \, dy \, dx = \int_c^d \int_a^b f(x, y) \, dx \, dy$

Special Case:

$\iint_R g(x, y) \, dA$
 $= \int_a^b g(x) \, dx \int_c^d g(y) \, dy$ where $R = [a, b] \times [c, d]$
 Average value:
 $f_{avg} = \frac{1}{\text{Area } R} \iint_R f(x, y) \, dA$

Applications of Double Integrals

$\rho(x, y) = \text{mass per unit area}$
 $M = \iint_R \rho(x, y) \, dA$
 $\bar{x} = \frac{1}{M} \iint_R x \rho(x, y) \, dA$
 $\bar{y} = \frac{1}{M} \iint_R y \rho(x, y) \, dA$
 $\bar{z} = \frac{1}{M} \iint_R z \rho(x, y) \, dA$

Vector Fields

A vector field is a function that maps points to vectors
 In \mathbb{R}^2 (plane)
 $\vec{F}(x, y) = P(x, y)\mathbf{i} + Q(x, y)\mathbf{j} = \langle P, Q \rangle$
 In \mathbb{R}^3 (space):
 $\vec{F}(x, y, z) = P(x, y, z)\mathbf{i} + Q(x, y, z)\mathbf{j} + R(x, y, z)\mathbf{k} = \langle P, Q, R \rangle$

Surface Area:

$A(S) = \iint_D \sqrt{f_x^2 + f_y^2 + 1} \, dA$

Line Integrals (Cont)

with respect to Arc Length:
 $\int_C f(x, y, z) \, ds = \int_a^b f(x(t), y(t), z(t)) \sqrt{x'(t)^2 + y'(t)^2 + z'(t)^2} \, dt$
 $W = \int_C f(x, y, z) \, ds = \int_a^b f(x(t), y(t), z(t)) \sqrt{x'(t)^2 + y'(t)^2 + z'(t)^2} \, dt$
 $W = \int_a^b [F(x(t), y(t), z(t))] \sqrt{x'(t)^2 + y'(t)^2 + z'(t)^2} \, dt$
 $W = \int_a^b [F(x(t), y(t), z(t))] \sqrt{x'(t)^2 + y'(t)^2 + z'(t)^2} \, dt$

Green's Theorem:

Let C be a positively oriented, piecewise smooth, simple closed curve in the plane D bounded by C . If P and Q have continuous partial derivatives on an open region that contains D , then:
 $\int_C P \, dx + Q \, dy = \iint_D \left(\frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) \, dA$
 In a simple region:
 $\int_C P \, dx + Q \, dy = \iint_D \left(\frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) \, dA$
 $\int_C P \, dx + Q \, dy = \iint_D \left(\frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) \, dA$
 for a counter-clockwise circle:
 $A = \int_C x \, dy - \int_C y \, dx = \frac{1}{2} \int_C (x \, dy - y \, dx)$
 Extends:
 $\int_C P \, dx + Q \, dy = \iint_D \left(\frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) \, dA$

Fundamental Theorem of Line Integrals

if $\vec{F}(x, y, z) = \nabla f(x, y, z)$ is a conservative vector field:
 $\frac{\partial f}{\partial x} = P$
 $\frac{\partial f}{\partial y} = Q$
 $\frac{\partial f}{\partial z} = R$

Line Integrals:

If f is defined on a smooth curve C given by $x = x(t), y = y(t), z = z(t)$ for $a \leq t \leq b$. Then the line integral along C is:
 $\int_C f(x, y, z) \, ds = \int_a^b f(x(t), y(t), z(t)) \sqrt{x'(t)^2 + y'(t)^2 + z'(t)^2} \, dt$
 Line integral with respect to Arc Length:
 $\int_C f(x, y, z) \, ds = \int_a^b f(x(t), y(t), z(t)) \sqrt{x'(t)^2 + y'(t)^2 + z'(t)^2} \, dt$
 $\int_C f(x, y, z) \, ds = \int_a^b f(x(t), y(t), z(t)) \sqrt{x'(t)^2 + y'(t)^2 + z'(t)^2} \, dt$
 Vector representation of a line segment that starts at (a, c) and ends at (b, d) is given by:
 $\vec{r}(t) = (b-a)t + (a, c)$ $0 \leq t \leq 1$
 $\int_C f(x, y, z) \, ds = \int_a^b f(x(t), y(t), z(t)) \sqrt{x'(t)^2 + y'(t)^2 + z'(t)^2} \, dt$

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Table of Contents Calculus Iii For Dummies Wordpress

1. Understanding the eBook Calculus Iii For Dummies Wordpress
 - The Rise of Digital Reading Calculus Iii For Dummies Wordpress
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculus Iii For Dummies Wordpress
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Calculus Iii For Dummies Wordpress
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus Iii For Dummies Wordpress
 - Personalized Recommendations

- Calculus Iii For Dummies Wordpress User Reviews and Ratings
- Calculus Iii For Dummies Wordpress and Bestseller Lists
- 5. Accessing Calculus Iii For Dummies Wordpress Free and Paid eBooks
 - Calculus Iii For Dummies Wordpress Public Domain eBooks
 - Calculus Iii For Dummies Wordpress eBook Subscription Services
 - Calculus Iii For Dummies Wordpress Budget-Friendly Options
- 6. Navigating Calculus Iii For Dummies Wordpress eBook Formats
 - ePub, PDF, MOBI, and More
 - Calculus Iii For Dummies Wordpress Compatibility with Devices
 - Calculus Iii For Dummies Wordpress Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Calculus Iii For Dummies Wordpress
 - Highlighting and Note-Taking Calculus Iii For Dummies Wordpress
 - Interactive Elements Calculus Iii For Dummies Wordpress
- 8. Staying Engaged with Calculus Iii For Dummies Wordpress
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Calculus Iii For Dummies Wordpress
- 9. Balancing eBooks and Physical Books Calculus Iii For Dummies Wordpress
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Calculus Iii For Dummies Wordpress
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Calculus Iii For Dummies Wordpress
 - Setting Reading Goals Calculus Iii For Dummies Wordpress
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Calculus Iii For Dummies Wordpress
 - Fact-Checking eBook Content of Calculus Iii For Dummies Wordpress

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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