

# Calculus III Running Notes

## Points of Interest in Multivariable Functions

**Finding POE's:**  $\nabla f(x,y,z)$  at  $(x_0, y_0, z_0)$   
 Find  $D = f_{xx} \cdot f_{yy} - (f_{xy})^2$   
**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  $D$  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:

$$\iint_R f(x,y) \, dA = \lim_{n \rightarrow \infty} \sum_{i=1}^n \sum_{j=1}^m f(x_{ij}^*, y_{ij}^*) \Delta A$$

**Iterated Integrals**

$$\iint_R f(x,y) \, dA = \int_a^b \left[ \int_c^d f(x,y) \, dy \right] dx$$

**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:**

$$\iint_R y \, dA = \int_a^b \int_c^d y \, dy \, dx \quad \text{where } R = [a,b] \times [c,d]$$

**Average value:**

$$f_{avg} = \frac{1}{A} \iint_R f(x,y) \, dA$$

## 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:**  
 $D = \{(x,y) \mid c \leq y \leq d, h_1(y) \leq x \leq h_2(y)\}$   
 $\iint_D f(x,y) \, dA = \int_c^d \int_{h_1(y)}^{h_2(y)} f(x,y) \, dx \, dy$

## Double Integrals in Polar Co-ordinates

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

$(r \cos \theta)^2 + (r \sin \theta)^2 = r^2$   
 $= r^2 \cos^2 \theta + r^2 \sin^2 \theta = r^2 (\cos^2 \theta + \sin^2 \theta) = r^2$

## Applications of Double Integrals

$P(x,y) = \rho \cos \theta$   
 $A = \int_a^b \int_c^d \rho \cos \theta \, dy \, dx = \iint_D \rho \cos \theta \, dA$   
 $M_x = \iint_D y \rho \cos \theta \, dA$   
 $M_y = \iint_D x \rho \cos \theta \, dA$

center of mass:  $\bar{x} = \frac{1}{M} \iint_D x \rho \cos \theta \, dA$   
 $\bar{y} = \frac{1}{M} \iint_D y \rho \cos \theta \, dA$   
 Moment of inertia:  $I_x = \iint_D y^2 \rho \cos \theta \, dA$   
 $I_y = \iint_D x^2 \rho \cos \theta \, dA$

## 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:  
 $\int_C P \, dx = \iint_D \frac{\partial P}{\partial y} \, dA$   
 $\int_C Q \, dy = \iint_D \frac{\partial Q}{\partial x} \, dA$   
 for a counter (topology: a circle):  
 $A = \oint_C x \, dy = - \oint_C y \, dx = \frac{1}{2} \oint_C x \, dy - y \, dx$   
 Extends:  
 $\int_C P \, dx + Q \, dy = \iint_D \left( \frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) \, dA$

## Line Integrals (Cont)

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

## Fundamental Theorem of Line Integrals

$$\int_C \nabla f \cdot dr = f(x(b), y(b), z(b)) - f(x(a), y(a), z(a))$$

if  $P(x,y,z) = \langle \nabla f, \nabla f \rangle$  is a conservative vector field:  
 $\frac{\partial P}{\partial x} = \frac{\partial^2 f}{\partial x^2}$

## Surface Area:

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

## 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:  
 $\int_C f(x,y) \, ds = \int_a^b f(x(t), y(t)) \sqrt{x'(t)^2 + y'(t)^2} \, dt$   
 $\int_C f(x,y,z) \, dy = \int_a^b f(x(t), y(t), z(t)) y'(t) \, dt$   
 Vector representation of a line segment that starts at  $(x_1, y_1, z_1)$  and ends at  $(x_2, y_2, z_2)$  is given by:  
 $\langle x(t), y(t), z(t) \rangle = \langle x_1, y_1, z_1 \rangle + t \langle x_2 - x_1, y_2 - y_1, z_2 - z_1 \rangle$      $0 \leq t \leq 1$   
 $\int_C f(x,y,z) \, ds = \int_a^b f(x(t), y(t), z(t)) \sqrt{x'(t)^2 + y'(t)^2 + z'(t)^2} \, dt$

## 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:  
 $\iiint f(x,y,z) \, dV = \int_a^b \int_c^d \int_0^r f(r \cos \theta, r \sin \theta, z) \cdot r \, dr \, d\theta \, dz$

## Triple integrals in Spherical Co-ordinates

$\rho$  -  $\rho$  -  $\rho$  from  $\rho$      $\phi$  -  $\phi$  -  $\phi$  from  $\phi$      $\theta$  -  $\theta$  -  $\theta$  from  $\theta$   
 Distance formula:  
 $\rho^2 = x^2 + y^2 + z^2$   
 In triple integral formula:  
 $\iiint f(x,y,z) \, dV = \int_a^b \int_c^d \int_0^r f(\rho \sin \phi \cos \theta, \rho \sin \phi \sin \theta, \rho \cos \phi) \cdot \rho^2 \sin \phi \, d\rho \, d\theta \, d\phi$

## 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):  
 $\vec{F}(x,y,z) = P(x,y,z)\mathbf{i} + Q(x,y,z)\mathbf{j} + R(x,y,z)\mathbf{k} = \langle P, Q, R \rangle$

## Curl and Divergence

For  $F = P\mathbf{i} + Q\mathbf{j} + R\mathbf{k}$ :  
 $\text{curl } F = \left( \frac{\partial R}{\partial y} - \frac{\partial Q}{\partial z} \right) \mathbf{i} + \left( \frac{\partial P}{\partial z} - \frac{\partial R}{\partial x} \right) \mathbf{j} + \left( \frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) \mathbf{k}$   
 $\nabla \cdot F = \left( \frac{\partial P}{\partial x} + \frac{\partial Q}{\partial y} + \frac{\partial R}{\partial z} \right)$   
 and  $\text{curl } F = \nabla \times F$   
 If  $F$  is a function of 3 variables that has continuous second order partial derivatives then  $\text{curl } (\nabla f) = 0$   
 $\text{curl } \nabla f = \nabla \times \nabla f = 0$   
 $\nabla \cdot (\nabla \cdot F) = \nabla \cdot (\nabla \cdot F)$

# Multivariable Calculus Open Source Study Guide

**Roman Wölfel**



## **Multivariable Calculus Open Source Study Guide:**

## **Multivariable Calculus Open Source Study Guide** Book Review: Unveiling the Magic of Language

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