

Calculus III Running Notes

Points of Interest in Multivariable Functions

Finding POI's: $\nabla f(x,y) = 0$ (i.e. $f_x = 0, f_y = 0$)
 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 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:
 $\iint_R f(x,y) \, dA = \int_a^b \int_c^d f(x,y) \, dy \, dx$

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

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:
 $\iint_R xy \, dA = \int_a^b \int_c^d xy \, dy \, dx$ 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

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

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

Applications of Double Integrals

$M = \iint_R \rho(x,y) \, dA$
 $\bar{x} = \frac{1}{M} \iint_R x \rho(x,y) \, dA$
 $\bar{y} = \frac{1}{M} \iint_R y \rho(x,y) \, dA$

moment of inertia: $I_x = \iint_R y^2 \rho(x,y) \, dA$
 $I_y = \iint_R x^2 \rho(x,y) \, dA$
 Product of inertia: $I_{xy} = \iint_R xy \rho(x,y) \, dA$
 $I_z = \iint_R (x^2 + y^2) \rho(x,y) \, dA$

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-clockwise circle:
 $A = \oint_C x \, dy = - \oint_C y \, dx = \frac{1}{2} \oint_C x \, dy - y \, dx$

Extends:
 $\int_C P \, dx + Q \, dy = \iint_D \left(\frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) \, dA$

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:
 $\iiint_D f(x,y,z) \, dV = \int_a^b \int_c^d \int_{g_1(r,\theta)}^{g_2(r,\theta)} f(r \cos \theta, r \sin \theta, z) \cdot r \, dz \, dr \, d\theta$

Triple integrals in Spherical Co-ordinates

ρ - ρ - ρ from ρ ϕ - ϕ - ϕ from ϕ θ - θ - θ from θ
 Distance formula:
 $\rho^2 = x^2 + y^2 + z^2$
 In triple integral formula:
 $\iiint_D f(x,y,z) \, dV = \int_a^b \int_c^d \int_{g_1(\rho,\theta,\phi)}^{g_2(\rho,\theta,\phi)} f(\rho \cos \theta \sin \phi, \rho \sin \theta \sin \phi, \rho \cos \phi) \cdot \rho^2 \sin \phi \, d\rho \, d\theta \, d\phi$

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 $\text{curl } (\nabla \cdot F) = 0$
 $\text{div } (\nabla \times F) = 0$
 $\nabla \cdot (\nabla \cdot F) = \nabla \cdot (\nabla \cdot F)$

Surface 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 $x = x(t), y = y(t), z = z(t)$ 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:
 $\int_C f(x,y) \, ds = \int_a^b f(x(t), y(t)) \sqrt{(x'(t))^2 + (y'(t))^2} \, dt$

$\int_C f(x,y) \, dy = \int_a^b f(x(t), y(t)) y'(t) \, dt$

Vector representation of a line segment that starts at (x_1, y_1) and ends at (x_2, y_2) is given by:

$\int_C f(x,y) \, ds = \int_a^b f(x(t), y(t)) \sqrt{(x'(t))^2 + (y'(t))^2} \, dt$

Line Integrals (Cont)

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

$\int_C f(x,y,z) \, dz = \int_a^b f(x(t), y(t), z(t)) z'(t) \, dt$

$\int_C f(x,y,z) \, dx = \int_a^b f(x(t), y(t), z(t)) x'(t) \, dt$

$\int_C f(x,y,z) \, dy = \int_a^b f(x(t), y(t), z(t)) y'(t) \, dt$

Fundamental Theorem of Line Integrals

$\int_C \nabla f \cdot dr = f(x_2, y_2, z_2) - f(x_1, y_1, z_1)$

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

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