16.1 Multi-Variable Calc Notes

Vector Fields

If F is a vector field, then $F(x,y) = P(x,y)i + Q(x,y)j = (P(x,y),Q(x,y)) \rightarrow F = Pi + Qj$

Gradient Vector Fields

If F is a scalar function of two variables, then ∇f is a gradient vector field

Conservative Vector Fields

If a vector field is conservative, then the law of conservation of energy applies

There are 2 ways to check if a vector field is conservative.

If the potential function exists, then the vector field is conservative. The potential
function is the sum of each component integrated with respect to its corresponding
variable, ignoring repeated terms

$$F(x,y) = (2x^4 - 2y - y^3, x - 2x - 3xy^2, 6 + y + 8xz^3)$$

$$\int 2x^4 - 2y - y^3 dx \rightarrow 2xx^4 - 2xy - xy^3 + C$$

$$\int z - 2x - 3xy^2 dy \rightarrow yz - 2xy - xy^3 + C$$

$$\int 6 + y + 8xz^3 dz \rightarrow 6z + yz + 2xz^4 + C$$

Potential function = $2xz^4 - 2xy - xy^2 + yz + 6z + K$

 If the mixed partials of the components equal each other, then the vector field is conservative. This only really works for 2-dimensional vector fields

$$\begin{split} F(x,y) &= \langle 2xe^{xy} + x^2ye^{xy}, x^3e^{xy} + 2y \rangle \\ \frac{\partial}{\partial y} \ 2xe^{xy} + x^2ye^{xy} &\to 2x^2e^{xy} + x^3ye^{xy} + x^2e^{xy} &\to 3x^2e^{xy} + x^3ye^{xy} \\ \frac{\partial}{\partial x} \ x^3e^{xy} + 2y &\to x^3ye^{xy} + 3x^2e^{xy} \end{split}$$
 The partials equal each other so the vector field is conservative

Multivariable Calculus Chapter 16

David Kirk

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