

# Multivariable Calculus Study Guide: A L<sup>A</sup>T<sub>E</sub>X Version

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December 11, 2011

## 1 Disclaimer

It is not guaranteed that I have every single bit of necessary information for the course. This happened to be some of what I needed to know this specific semester in my course. For example, Stokes' Theorem is not even mentioned.

## 2 Vectors Between Two Points

Given :  $P(x_1, y_1)$  &  $Q(x_2, y_2)$

$$\vec{PQ} = \begin{pmatrix} x_2 - x_1 \\ y_2 - y_1 \end{pmatrix}$$

## 3 Vectors in the Plane

Let  $\mathbf{v} = \begin{pmatrix} v_1 \\ v_2 \end{pmatrix}$  &  $\mathbf{u} = \begin{pmatrix} u_1 \\ u_2 \end{pmatrix}$   
 $\mathbf{0} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$

### 3.1 Simple Operations

$$\begin{aligned} c\mathbf{v} &= \begin{pmatrix} cv_1 \\ cv_2 \end{pmatrix} \\ \|\mathbf{v}\| &= \sqrt{v_1^2 + v_2^2} \\ \mathbf{v} + \mathbf{u} &= \begin{pmatrix} v_1 + u_1 \\ v_2 + u_2 \end{pmatrix} \end{aligned}$$

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**Thomas Griffiths**

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