

## Calculus III Study Guide

### 3-D Distance Formula

$$P_1 = (x_1, y_1, z_1) \text{ and } P_2 = (x_2, y_2, z_2)$$

$$|P_1P_2| = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$$

### Equation of a Sphere:

$$(x - h)^2 + (y - k)^2 + (z - l)^2 = r^2$$

With Center:  $C(h, k, l)$

### Vectors

$$|\vec{a}| = \sqrt{a_1^2 + a_2^2 + \dots + a_n^2}$$

### Dot Product:

$$\vec{A} \cdot \vec{B} = |\vec{A}| |\vec{B}| \cos\theta$$

### Cross Product:

$$\vec{A} \times \vec{B} = |\vec{A}| |\vec{B}| \sin\theta$$

$$\text{comp}_{\vec{a}} \vec{b} = \frac{\vec{a} \cdot \vec{b}}{|\vec{a}|}$$

$$\text{proj}_{\vec{a}} \vec{b} = \text{comp}_{\vec{a}} \vec{b} \frac{\vec{a}}{|\vec{a}|} = \frac{\vec{a} \cdot \vec{b}}{|\vec{a}|^2} \vec{a}$$

### Equations of Lines

$$\vec{r} = \vec{r_0} + t\vec{v}$$

# Calculus 3 Study Guide

**Robert Stewart Jr.**

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