Notes on Electrodynamics

October 1, 2023
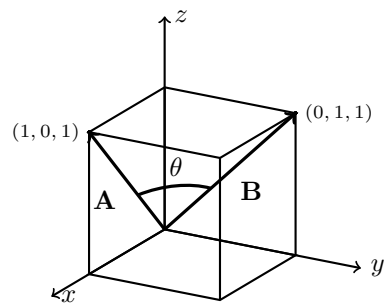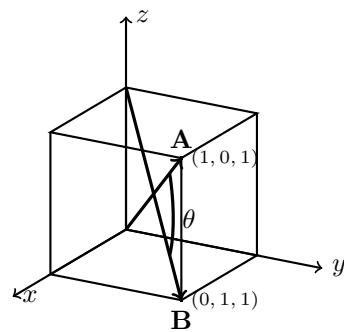
Contents

1 Vector Analysis

1.1 Vector Algebra

Face diagonals

Body diagonals

2 Potentials

2.1 Multipole Expansion

$$\boldsymbol{\imath} = |\mathbf{r} - \mathbf{r}'|$$

Where $\boldsymbol{\imath}$ denotes the vector from a source point $\mathbf{r}'$ to a field point $\mathbf{r}$.