Hello World OK

$$\begin{pmatrix} a & b \\ c & d \\ c & 22233 \end{pmatrix}$$

## 1 Quaterion Algebra

$$\{1, -1, i, -i, j, -j, k, -k\}$$

## 1.1 Dot Product and Cross Product

$$v = p \cdot q + p \times q$$