

# CASMA 225

## Calc 3

Giacomo Cappelletto

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# Chapter 1

## Vectors

### 1.1 Review

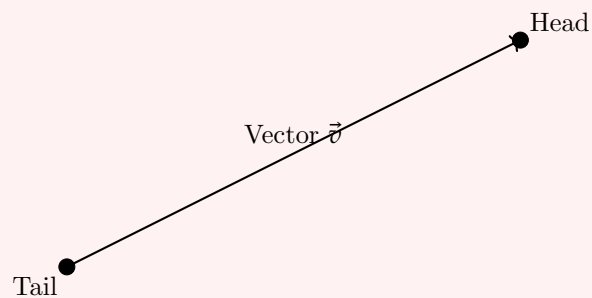
#### Definition 1.1.1: Notation

Drawn Vectors:  $\vec{v}$   
Typed Vectors:  $\mathbf{v}$

#### Definition 1.1.2: Velocity

Magnitude of the velocity:  $|\vec{v}|$   
Direction of the velocity:  $dir(\vec{v})$

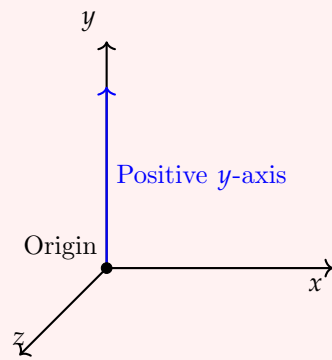
#### Definition 1.1.3: Heads and Tails



#### Note:-

Scalar is like a 1 dimensional vector, either positive or negative, and its magnitude is the absolute value of the scalar

**Definition 1.1.4: Positive y axis**



## 1.2 Vector Operations

**Definition 1.2.1: Geometric POV**