

CASMA 225

Calc 3

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Chapter 1

Vectors

1.1 Review

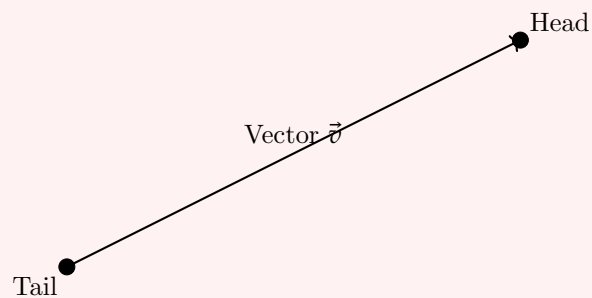
Definition 1.1.1: Notation

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

Definition 1.1.2: Velocity

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

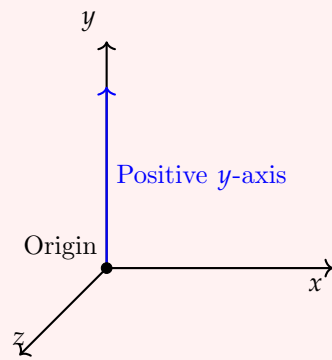
Definition 1.1.3: Heads and Tails



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