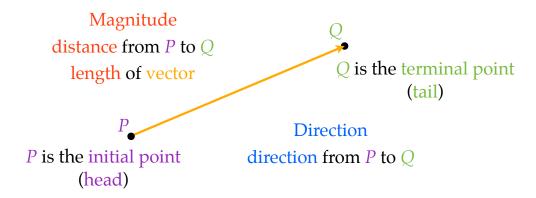
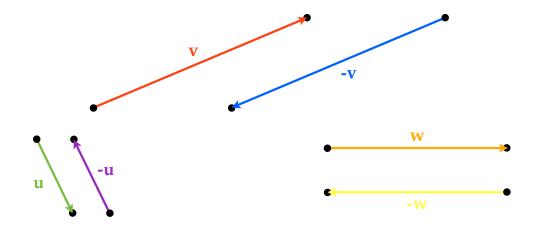
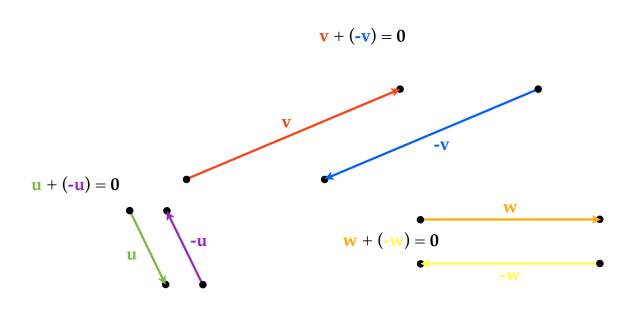
Vectors have a starting and ending point

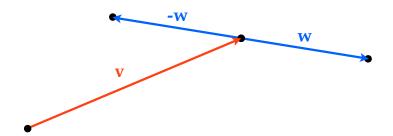
A vector is a quantity with magnitude and direction



Given \mathbf{v} , the negation of \mathbf{v} , $\mathbf{-v}$, is a vector with the same magnitude but in the opposite direction

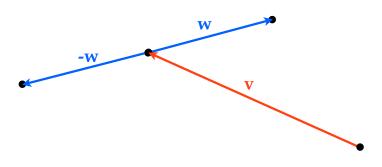






Subtracting Vectors To subtract a vector, add the opposite vector

$$\mathbf{v} - \mathbf{w} = \mathbf{v} + (-\mathbf{w})$$



Subtracting Vectors

To subtract a vector, add the opposite vector

$$\mathbf{v} - \mathbf{w} = \mathbf{v} + (-\mathbf{w})$$

