Vectors - Part Two

\[ a \cdot (b + c) = a \cdot b + a \cdot c \]

\[ a \cdot b = b \cdot a \]

\[ \cos \theta = \frac{a \cdot b}{|a||b|} \]

Properties

Vector Theory, Magnitude & Direction

Tail to tail

Angle between two vectors

Points A, B and C are said to be **Collinear** if

\[ \overrightarrow{AB} = k \overrightarrow{BC} \]

B is a point in common.

\[ b = \frac{n}{m+n} a + \frac{m}{m+n} c \]