

### 3.9: Comparison

At this stage I compare some somewhat similar formulas.

$\mathbf{L} = \mathbf{L}_C + \bar{\mathbf{r}} \times \mathbf{P}$	$\boldsymbol{\tau} = \boldsymbol{\tau}_C + \bar{\mathbf{r}} \times \mathbf{F}$
$\mathbf{L} = \sum m_i \mathbf{r}_i \times \mathbf{v}_i$	$\boldsymbol{\tau} = \sum m_i \mathbf{r}_i \times \dot{\mathbf{v}}_i$
$\mathbf{L}_C = \sum m_i \mathbf{r}'_i \times \mathbf{v}'_i$	$\boldsymbol{\tau}' = \sum m_i \mathbf{r}'_i \times \dot{\mathbf{v}}_i$
$\mathbf{P} = \sum m_i \mathbf{v}_i$	$\mathbf{F} = \sum m_i \dot{\mathbf{v}}_i$

This page titled [3.9: Comparison](#) is shared under a [CC BY-NC 4.0](#) license and was authored, remixed, and/or curated by [Jeremy Tatum](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.