Exercise   1 *Consider*

- *The vector $\vec{\mathbf{v}}$ whose tip is at the point $(-3, 4, 2)$ and whose tail is at the point $(-1, 2, -1)$.*

- *The vector $\vec{\mathbf{w}}$ whose tip is at the point $(1, -3, 0)$ and whose tail is at the point $(3, 3, 1)$.*

Compute $\vec{\mathbf{v}} - \vec{\mathbf{w}}$.

$$\vec{\mathbf{v}} - \vec{\mathbf{w}} = \left\langle \boxed{0}, \boxed{8}, \boxed{4} \right\rangle$$