

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 $\vec{\mathbf{v}} + \vec{\mathbf{w}}$.

$$\vec{\mathbf{v}} + \vec{\mathbf{w}} = \langle \boxed{-4}, \boxed{-4}, \boxed{2} \rangle$$

Hint: We find:

$$\vec{\mathbf{v}} = \langle \boxed{-2}, \boxed{2}, \boxed{3} \rangle$$

$$\vec{\mathbf{w}} = \langle \boxed{-2}, \boxed{-6}, \boxed{-1} \rangle$$