Exercise 1 Consider

- The vector $\overrightarrow{\mathbf{v}}$ whose tip is at the point (-3,4,2) and whose tail is at the point (-1,2,-1).
- The vector $\overrightarrow{\mathbf{w}}$ whose tip is at the point (1, -3, 0) and whose tail is at the point (3, 3, 1).

Compute $\overrightarrow{\mathbf{v}} + \overrightarrow{\mathbf{w}}$.

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

Hint: We find:

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

$$\overrightarrow{\mathbf{w}} = \left\langle \boxed{-2}, \boxed{-6}, \boxed{-1} \right\rangle$$