Exercise 1 *Consider*

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

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

$$\vec{\mathbf{v}} + \vec{\mathbf{w}} = \left\langle \boxed{8}, \boxed{-3}, \boxed{-4} \right\rangle$$