Problem. For the given vectors \( \mathbf{v} = -\mathbf{i} + \mathbf{j} \) and \( \mathbf{w} = 2\mathbf{i} + 5\mathbf{j} \).

Find:

a) the magnitude of the vector \( \mathbf{w} - \mathbf{v} \),

b) the unit vector in the direction of \( \mathbf{v} + \mathbf{w} \),
Problem. For the given vectors $v = i + 4j$ and $w = -3i - j$.

Find:

c) the magnitude of the vector $w - v$,

d) the unit vector in the direction of $v + w$,