1. Draw and label the vectors $\vec{v} = \vec{PQ}$ and $\vec{w} = \vec{RS}$ on the axes below. Are they equivalent?

\[ P = (-2, 1) \quad Q = (1, -1) \quad R = (2, 3) \quad S = (-1, -2). \]

2. Let $\vec{v} = (2, -3)$ and $\vec{w} = (1, 4)$. Calculate

(a) $3\vec{v} + 2\vec{w}$

(b) $\vec{v} - 4\vec{w}$