$$\begin{array}{c|c} |\vec{\omega}| = \sqrt{0.5^2 \cdot 65^2} & |\vec{\omega}| \\ |\vec{\omega}| = 0.7071 \\ |\vec{\omega}| = 0.7071 \\ |\vec{\omega}| = 0.7071 \\ |\vec{\omega}| = 0.5051 \cdot [0.5] = [0.5 \cdot 0.5 + 0.5 + 1.25] \\ |\vec{\omega}| = [1] \\ |\vec{\omega}| = 0.7071 \\ |\vec{\omega}|$$

