$$B_{w}^{i=3 \text{ col of } N}$$

$$B_{w}^{t} = (Ne_{i}^{t}) \rightarrow W = B^{-1}(Ne_{i}^{t}) = \frac{1}{8} \begin{bmatrix} 1 & -3 \\ 2 & 2 \end{bmatrix} \begin{bmatrix} 2 \\ 3 \end{bmatrix} = \frac{1}{8} \begin{bmatrix} -7 \\ 10 \end{bmatrix}$$

$$\omega = \begin{bmatrix} -7/8 \\ 10/8 \end{bmatrix} \longrightarrow e^{T} W = \frac{-7}{8}, e^{T}_{2} W = \frac{10}{8} = \frac{5}{4}$$

only use  $e^{T}W > 0$ , therefore use  $e_{2}^{T}W = \frac{5}{4}$ 

$$\frac{e_2^{\mathsf{T}} \times \overset{\dagger}{B}}{=} \frac{(3_2)}{(5_4)} = \frac{12}{10} = \frac{6}{5} \rightarrow \frac{e_2^{\mathsf{T}} \times \overset{\dagger}{B}}{=} \overset{\mathsf{is}}{=} \overset{\mathsf{positive}}{=} / \overset{\mathsf{I}}{=} 2$$

using [i=3] and [i=2] from the steps outlined

Swap 2nd column of B with 3nd column of M.

Swap 2nd row of [CB] with 3rd row of [CN].