civil problem

Amarjeet singh

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$$[K - w^2 M] = \begin{bmatrix} -8\,w^2 + 18 & -8 & 0 & 0 \\ -8 & -8\,w^2 + 14 & -6 & 0 \\ 0 & -6 & -4\,w^2 + 12 & -6 \\ 0 & 0 & -6 & -4\,w^2 + 6 \end{bmatrix} \quad (1)$$

$[0.2028276463652717?, 1.128036452219081?, 2.838531784744157?, 4.330604116671492?]$