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$$\begin{pmatrix} 2 & 2 & 2 \\ -2 & -3 & 1 \\ -3 & -2 & 1 \\ 1 & 1 & 0 \\ 2 & 2 & -4 \end{pmatrix} \cdot \begin{pmatrix} 2 & 2 & 2 \\ -2 & -3 & 1 \\ -3 & -2 & 1 \\ 1 & 1 & 0 \\ 2 & 2 & -4 \end{pmatrix} = \begin{pmatrix} 22 & 21 & -9 \\ 21 & 22 & -9 \\ -9 & -9 & 22 \end{pmatrix}$$

$$A = \begin{pmatrix} 22 & 21 & -9 \\ 21 & 22 & -9 \\ -9 & -9 & 22 \end{pmatrix}$$

Eigenvectors for the matrix A:

$$v = \begin{pmatrix} -1 \\ 1 \\ 0 \\ = \end{pmatrix}, \text{ eigenvalue } \lambda_1 = 1$$

$$v = \begin{pmatrix} 0,\overline{3}33\\ 0,\overline{3}33\\ 1 \end{pmatrix}, \text{ eigenvalue } \lambda_2 = 16$$

$$v = \begin{pmatrix} -1,5 \\ -1,5 \\ 1 \\ = \end{pmatrix}, \text{ eigenvalue } \lambda_3 = 49$$