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U0 := 4.0E16 :
U1 := 1.0E16 :
k := 0.85E7 :
G := 2E7 :

```

$$M3 := \begin{bmatrix} (k + G)^2 \cdot U0 & k^2 \cdot U1 & 0 \\ (k + G)^2 \cdot U1 & k^2 \cdot U0 & (k - G)^2 \cdot U1 \\ 0 & k^2 \cdot U1 & (k - G)^2 \cdot U0 \end{bmatrix} :$$

Eigenvectors(M3);

$$\begin{bmatrix} 7.86934400000000024 \cdot 10^{28} + 0. \text{I} \\ 1.849565570000000006 \cdot 10^{31} + 0. \text{I} \\ 1.369565087000000008 \cdot 10^{31} + 0. \text{I} \end{bmatrix}, \begin{bmatrix} [-0.00122207299999999996 + 0. \text{I}, \\ 0.9996923910999999966 + 0. \text{I}, -0.00117816341499999996 + 0. \text{I}], \\ [0.9999978871000000038 - 0. \text{I}, 0.2512871474999999974 + 0. \text{I}, \\ 0.2510455349999999986 + 0. \text{I}], \\ [-0.001653033995000000008 + 0. \text{I}, 0.001176522244000000006 + 0. \text{I}, \\ 0.9995862554000000012 + 0. \text{I}]] \end{bmatrix}$$