$$\mathbf{x}_{3} = \begin{pmatrix}
-0.52 \\
-0.42 \\
0.69
\end{pmatrix}$$

$$\mathbf{M} = \begin{pmatrix}
0.80 & 0.01 & 0.25 \\
0.01 & 0.85 & 0.48 \\
0.25 & 0.48 & 0.5
\end{pmatrix}$$

$$= \mathbf{V} \begin{pmatrix}
0.8 & 0 & 0 \\
0 & 1.25 & 0 \\
0 & 0 & 0.1
\end{pmatrix}$$

$$\mathbf{V}^{\mathsf{T}} = \begin{pmatrix}
0.62 \\
0.03
\end{pmatrix}$$

$$\mathbf{x}_{1} = \begin{pmatrix}
0.62 \\
0.03
\end{pmatrix}$$

$$\mathbf{x}_{2} = \begin{pmatrix}
-0.7 \\
0.17 \\
-0.61
\end{pmatrix}$$

 x_1