



The Warming House



2011 年 1 月 20 日 2011 年 1 月 20 日

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• $\mathbf{V}_1 = \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$ and $\mathbf{V}_2 = \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -1 \end{pmatrix}$ are orthonormal

• $\mathbf{V}_1$ and $\mathbf{V}_2$ are eigenvectors of $\mathbf{A}$ with eigenvalues $\lambda_1 = 0$ and $\lambda_2 = 2$ respectively
• $\mathbf{V}_1$ and $\mathbf{V}_2$ form a basis for $\mathbb{R}^2$ (they are linearly independent)
• $\mathbf{V}_1$ and $\mathbf{V}_2$ are orthogonal to each other (they are linearly independent)

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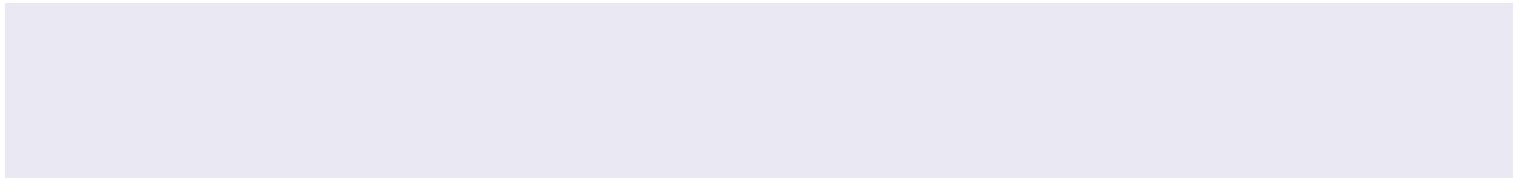
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Yes! I want to share in this important outreach through St. Bonaventure University and promote
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the Warming House or Franciscan Center for Social Concern.

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