

Observe that # equations a > # vocioble

$$\begin{bmatrix} 1 & 0 \\ 2 & 0 \\ 3 & 1 \end{bmatrix} \begin{bmatrix} \gamma_1 \\ \gamma_2 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 5 \end{bmatrix}$$

$$A \quad \chi = b$$

$$\begin{bmatrix}
4 & 0 \\
2 & 0
\end{bmatrix}
\begin{bmatrix}
\lambda_1 \\
\lambda_2
\end{bmatrix} = \begin{bmatrix}
1 \\
2
\end{bmatrix}$$

$$\begin{bmatrix}
\lambda_1 \\
\lambda_2
\end{bmatrix} = \begin{bmatrix}
1 \\
2
\end{bmatrix}$$

$$\begin{bmatrix}
\lambda_1 \\
\lambda_2
\end{bmatrix} = \begin{bmatrix}
1 \\
2
\end{bmatrix}$$

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\lambda_2
\end{bmatrix} = \begin{bmatrix}
1 \\
2
\end{bmatrix}$$

$$\begin{bmatrix}
\lambda_1 \\
\lambda_2
\end{bmatrix} = \begin{bmatrix}
1 \\
\lambda_2
\end{bmatrix} = \begin{bmatrix}
1 \\
\lambda_2
\end{bmatrix} = \begin{bmatrix}
1 \\
2
\end{bmatrix}$$
Now, let's check what our optimization approach gives

A proporach gives

A proporach gives

approach gives... Satisfied 11

Satisfied 11
$$\begin{bmatrix}
2 & 0 \\
3 & 1
\end{bmatrix}
\begin{bmatrix}
2 & 0 \\
3 & 1
\end{bmatrix}$$

$$\begin{array}{c|c}
0 & 0 & 1 & 2 \\
243 & 341 \\
\hline
20 & 1 & 4+15 \\
\hline
20 & 5 & 5
\end{array}$$

$$\operatorname{odjA} = \begin{pmatrix} 1 & -3 \\ -3 & 14 \end{pmatrix} \begin{pmatrix} 14 & 3 \\ 3 & 1 \end{pmatrix}$$

$$\begin{bmatrix}
\chi_{1} \\
\chi_{2}
\end{bmatrix} = \begin{bmatrix}
0.2 & -0.6 \\
-0.6 & 2.8 \\
5
\end{bmatrix}$$

$$= \frac{1}{5} \times 20 + \frac{3}{5} \times 3$$

$$= \frac{3}{5} \times 20 + \frac{3}{5} \times 3$$

$$= \frac{3}{5} \times 20 + \frac{3}{5} \times 3$$
Solving via so

as via optimized