原为形事小二乘解邻项解公式的:

$$X = \begin{pmatrix} \frac{212}{170} \\ -\frac{1}{68} \\ \frac{3}{240} \\ \frac{2}{2} \end{pmatrix} + \begin{pmatrix} \frac{32}{85} & \frac{4}{73} & \frac{36}{85} & 0 \\ \frac{4}{13} & \frac{1}{17} & \frac{4}{57} & 0 \\ \frac{26}{85} & \frac{8}{27} & \frac{81}{170} & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix}$$

15.
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16.
$$A = \begin{pmatrix} 0 & 0 & 1 \\ 0 & 0 & 2 \\ 1 & 1 & 1 \end{pmatrix}$$
 $\Rightarrow \begin{pmatrix} 0 & 0 & 1 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$ $r(A) = \lambda$.

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18. 11) 在到海旗时。

A的一个满株的解 A=HE B=A,C=E. $A^{\dagger} = C^{H}(cc^{H})^{-1}(B^{H}B)^{-1}B^{H} = (A^{H}A)^{-1}A^{H}$ $A^{\dagger}A = (A^{H}A)^{-1}A^{H}A = E_{n}$