adj 
$$(I - B) = \begin{bmatrix} \frac{5}{6} & \frac{2}{3} \\ \frac{1}{6} & \frac{3}{4} \end{bmatrix}$$

$$(I - B)^{-1} = \frac{1}{|1 - B|} adj (I - B)$$

$$= \frac{1}{\left(\frac{37}{72}\right)} \begin{bmatrix} \frac{5}{6} & \frac{2}{3} \\ \frac{1}{6} & \frac{3}{4} \end{bmatrix} = \frac{72}{37} \begin{bmatrix} \frac{5}{6} & \frac{2}{3} \\ \frac{1}{6} & \frac{3}{4} \end{bmatrix}$$

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$$X = (I - B)^{-1}D$$
, where  $D = \begin{bmatrix} 80\\40 \end{bmatrix}$ 

$$= \frac{72}{37} \begin{bmatrix} \frac{5}{6} & \frac{2}{3} \\ \frac{1}{6} & \frac{3}{4} \end{bmatrix} \begin{bmatrix} 80 \\ 40 \end{bmatrix} \Rightarrow \frac{1}{37} \begin{bmatrix} 72 \times \frac{5}{6} & 72 \times \frac{2}{3} \\ 72 \times \frac{1}{6} & 72 \times \frac{3}{4} \end{bmatrix} \begin{bmatrix} 80 \\ 40 \end{bmatrix}$$

$$= \frac{1}{37} \begin{bmatrix} 60 & 48 \\ 12 & 54 \end{bmatrix} \begin{bmatrix} 80 \\ 40 \end{bmatrix} \Rightarrow \frac{1}{37} \begin{bmatrix} 60 \times 80 + 48 \times 40 \\ 12 \times 80 + 54 \times 40 \end{bmatrix}$$

$$= \frac{1}{37} \begin{bmatrix} 6720 \\ 3120 \end{bmatrix} = \begin{bmatrix} 181.62 \\ 84.32 \end{bmatrix}$$

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