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

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

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

SamacheerKalvi. Guide

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

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

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

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

Matrices And Determinants In 11th Guide

N Noddings

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "Matrices And Determinants In 11th Guide," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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