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$$vi) |B| \begin{pmatrix} -2 & 8 & 0.5 \\ 2 & 5 & 2 \\ 0 & -9 & 1 \end{pmatrix}$$

$$\begin{aligned} |B| &= -2(-18-5) - 8(0-2) + 0.5(-18-0) \\ &= -2(-23) - 8(-2) + 0.5(-18) \\ &= -46 + 16 - 9 \\ &= \underline{\underline{-49}} \end{aligned}$$

$$vii) A+B$$

$$A \begin{pmatrix} 8 & -1 & 7 \\ -5 & 2 & 5 \\ 3 & 0 & 2 \end{pmatrix}$$

$$B \begin{pmatrix} -2 & 8 & 0.5 \\ 2 & 5 & 2 \\ 0 & -9 & 1 \end{pmatrix}$$

$$A+B \begin{pmatrix} 6 & 7 & 7.5 \\ -3 & 7 & 7 \\ 3 & -9 & 3 \end{pmatrix}$$