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06/01/2021

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ACHA4000

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$$(ii) \quad BA = \begin{pmatrix} -16 - 40 + 15 & +2 + 16 + 0 & -14 + 40 + 1 \\ 16 - 25 + 6 & -2 + 10 + 0 & 14 + 25 + 4 \\ 0 + 45 + 3 & 0 - 18 + 0 & 0 - 45 + 2 \end{pmatrix}$$

$$\Rightarrow BA = \begin{pmatrix} 54.5 & 18 & 37 \\ -1 & +8 & 43 \\ 48 & -18 & -43 \end{pmatrix}$$

(iii) AC

$$\Rightarrow \begin{pmatrix} 16 + 6 + 7 & 40 + 0 + 84 \\ -10 - 12 + 5 & -25 + 0 + 60 \\ 6 + 0 + 2 & 15 + 0 + 24 \end{pmatrix}$$

$$\Rightarrow AC = \begin{pmatrix} 29 & 124 \\ -17 & 35 \\ 8 & 39 \end{pmatrix}$$

(iv) CA = Not mathematically possible