

12:00, 6/01/2021, ACHA4000, 1803210

Question 1

$$\begin{array}{l} \text{ai)} \quad -16 + -2 + 0 \\ \quad \quad 10 + 4 + 0 \\ \quad \quad -6 + 0 + 0 \end{array}$$

$$\begin{array}{l} 63 + -5 + -64 \\ -40 + 10 + -45 \\ 24 + 0 + -18 \end{array}$$

$$\begin{array}{l} 4 + -2 + 7 \\ -2.5 + 10 + 5 \\ 1.5 + 0 + 2 \end{array}$$

$$AB = \begin{pmatrix} -18 & -6 & 9 \\ 14 & -75 & 12.5 \\ -6 & 6 & 3.5 \end{pmatrix}$$

$$\begin{array}{l} \text{aii)} \quad -16 + -40 + 1.5 \\ \quad \quad 16 + -25 + 6 \\ \quad \quad 0 + 45 + 3 \end{array}$$

$$\begin{array}{l} 2 + 16 + 0 \\ -2 + 10 + 0 \\ 0 + -18 + 0 \end{array}$$

$$\begin{array}{l} -14 + 40 + 1 \\ 17 + 25 + 4 \\ 0 + -45 + 2 \end{array}$$

$$AB = \begin{pmatrix} -54.5 & 18 & 27 \\ -3 & 8 & 46 \\ 48 & -18 & -43 \end{pmatrix}$$

$$\text{aiii)} \quad 16 + 6 + 7$$

$$-10 + -18 + 5$$

$$6 + 0 + 2$$

$$16 + 0 + 84$$

$$-25 + 0 + 60$$

$$15 + 0 + 24$$

$$AC = \begin{pmatrix} 29 & 100 \\ -23 & 35 \\ 8 & 39 \end{pmatrix}$$

①