

Q2)

$$\vec{a} \times \vec{b} = \begin{vmatrix} \hat{i} & -\hat{j} & \hat{k} \\ 2 & 3 & 5 \\ 7 & 5 & 3 \end{vmatrix}$$

$$\cancel{2(-9-2)} \cdot \hat{i}(-25+9) - \hat{j}(-35+6) + \hat{k}(-21+10)$$

$$\vec{a} \times \vec{b} = -16\hat{i} + 29\hat{j} - 11\hat{k}$$