

سید کاظمین ۲۰ آفرین ۱۳۰

$$\hat{A}, 4^\circ \rightarrow \frac{2 \cdot \frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}} \cdot \frac{2 \cdot \frac{\sqrt{2}}{2}}{\sin \hat{A}} \sin \hat{A}, \frac{\sqrt{2}}{2} \rightarrow \textcircled{1}$$

$$\hat{A} \textcircled{1}, 120^\circ \rightarrow \hat{A}, 120^\circ, \hat{C}, 40^\circ$$

$$\frac{AC}{\frac{\sqrt{2}}{2}} \cdot \frac{2\sqrt{2}}{\sqrt{2}} \rightarrow AC \cdot 2\sqrt{2} \rightarrow \alpha, AC \times \sin 4^\circ \textcircled{2}$$

$$2\sqrt{2} \times \frac{\sqrt{2}}{2} \textcircled{3}$$

$$\frac{b}{\sin \hat{A}} \cdot \frac{c}{\sin \hat{C}} \Rightarrow C = \frac{\sin \hat{C}}{\sin \hat{A}} \cdot b \Rightarrow \textcircled{3}$$

$$(b-1) \frac{\sin \hat{C}}{\sin \hat{B}} \cdot b \frac{\sin \hat{C}}{\sin \hat{B}} \Rightarrow b-1 = \frac{b \sin \hat{C}}{\sin \hat{B}} \Rightarrow$$

$$\boxed{b=1} \checkmark$$

$$b=1 \checkmark$$

$$149, 141 + 14 - 2 \times 14 \times 14 \times \sin \hat{A} \rightarrow \textcircled{4}$$

$$14 \cdot \sin \hat{A}, 4\sqrt{2} \rightarrow \sin \hat{A}, 1 \rightarrow \textcircled{5}$$

$$\sin \hat{B}, \sqrt{(14)^2}, 14 \checkmark$$

$$a^2, 14 + 14 + 14\sqrt{2} - 2 \times 14 \times 14 \times \frac{1}{2} \times 2 \checkmark$$

$$a, 2\sqrt{4} \checkmark$$

$$\frac{2\sqrt{4}}{\frac{\sqrt{2}}{2}} \cdot \frac{2}{\sin \hat{A}} \rightarrow \sin \hat{A}, \frac{\sqrt{2}}{2} \rightarrow \hat{A} = 45^\circ \checkmark$$

$$C, 110^\circ - 45^\circ - 45^\circ \checkmark$$

$$\cdot \quad \mathcal{E}(\mathcal{E}+1) \rightarrow \Gamma_X |X| \Gamma_X Q_X \Rightarrow$$

④

$$\cdot \quad Q_X \approx \frac{1}{\mathcal{E}} \Rightarrow$$

$$\cdot \quad DE^T, 14 + 24 - \Gamma_X \mathcal{E} X^4 X \frac{1}{\mathcal{E}} \cdot \mathcal{E} \rightarrow$$

$$\cdot \quad \{DE < \sqrt{1}\}$$

⑤

$$\cdot \quad \beta C^T, 28 + 4\mathcal{E} - \Gamma_X \mathcal{O} X \Lambda X \frac{1}{\mathcal{E}} \cdot \mathcal{E} \rightarrow$$

(الف)

$$\cdot \quad \underline{\beta C < V}$$

$$\cdot \quad \beta_{ABC} = \frac{1}{\mathcal{E}} \times \mathcal{O} X \Lambda X \frac{\sqrt{\mathcal{E}}}{\mathcal{E}} \sqrt{1 \cdot \sqrt{\mathcal{E}}} \quad \leftarrow$$

(ب)

$$\cdot \quad a^T, b^T + c^T - \Gamma_{BC} C \hat{A} \rightarrow$$

①

$$\cdot \quad \frac{\cancel{b^T} + c^T + \Gamma_{BC} - \cancel{b^T} - c^T + \Gamma_{BC} C \hat{A}}{bc(C\hat{A}+1)} \quad \leftarrow \frac{\Gamma_{BC}(C\hat{A}+1)}{bc(C\hat{A}+1)}$$

②

$$\cdot \quad \cancel{a^T} + b^T - c^T \quad \cancel{a^T} + a^T b - a^T c \Rightarrow$$

④

$$\cdot \quad (\cancel{b^T} - c^T)(b^T + b^T c + c^T), a^T(\cancel{b^T} - c^T) \Rightarrow$$

⑤

$$\cdot \quad a^T, b^T + c^T - \Gamma_{BC} C \hat{A}$$

$$\cdot \quad a^T, b^T + c^T + bc$$

$$\left. \begin{array}{l} a^T, b^T + c^T - \Gamma_{BC} C \hat{A} \\ a^T, b^T + c^T + bc \end{array} \right\} \Rightarrow \frac{Q\hat{A} - \frac{1}{\mathcal{E}}}{\hat{A} \cdot \Gamma_X} \Rightarrow$$

$$\cdot \quad \frac{1}{\mathcal{E}} \times \frac{1}{\mathcal{E}} (c - Q\mathcal{O})(1 + \mathcal{E}Q\mathcal{O}), \Gamma \Rightarrow$$

①

$$\cdot \quad \Lambda, \Gamma + \Lambda Q\mathcal{O} - Q^T \mathcal{O} \Rightarrow$$

$$\cdot \quad \Gamma Q^T \mathcal{O} - \Lambda Q\mathcal{O} + \Delta \cdot \rightarrow Q\mathcal{O} < 1 \checkmark$$

⑥

$$\cdot \quad Q\mathcal{O} < \frac{\mathcal{O}}{\mathcal{E}} \alpha$$

$$a^r = \sum + 14 - r_x r_x \leq x \frac{\sqrt{c}}{r} \leq \underline{\underline{r. - 1\sqrt{c}}}$$