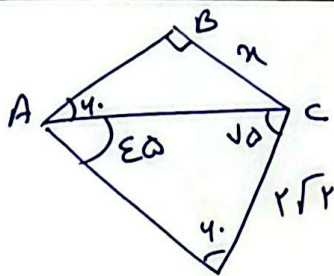


$$\frac{a}{\sin A} = \frac{b}{\sin B} \rightarrow \frac{20}{\frac{\sqrt{4}}{2}} = \frac{20\sqrt{4}}{\sin B} \rightarrow \sin B = \frac{1}{\sqrt{2}}$$

$B = 45^\circ$

$c = \sqrt{40}$

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$$\frac{20\sqrt{2}}{\sin 40} = \frac{AC}{\sin 50} \rightarrow \frac{20\sqrt{2}}{\frac{1}{\sqrt{2}}} = \frac{AC}{\frac{\sqrt{2}}{2}} \rightarrow AC = 20\sqrt{2}$$

$a = AC \sin 40 = 20\sqrt{2} \times \frac{\sqrt{2}}{2} = 20 \rightarrow$ جواب

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$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = k$$

$$a = k \sin A \Rightarrow (b^2 - 2) \frac{\sin C}{\sin B} = k \sin C \rightarrow b^2 - 2 = k \sin B$$

$$b = k \sin B \rightarrow b^2 - b - 2 = 0 \quad \left\{ \begin{array}{l} b = 2 \text{ (قبول)} \\ b = -1 \rightarrow \text{رد} \end{array} \right.$$

$b = 2$ جواب

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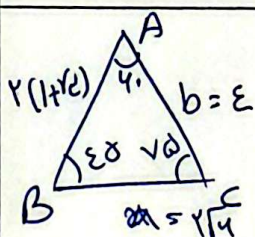
$$(13)^2 = (20)^2 + (21)^2 - 2(20)(21) \cos B \rightarrow 140 \cos B = 442$$

$$\rightarrow \cos B = \frac{442}{140} = 0.18 = \frac{9}{50}$$

$$\sin^2 B + \cos^2 B = 1 \rightarrow \sin^2 B + \frac{81}{2500} = 1 \rightarrow \sin^2 B = \frac{2419}{2500} \rightarrow \sin B = \frac{49}{50}$$

جواب

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$$a^2 = 14 + 4(1 + 2 + 2\sqrt{2}) - (2)(4)(2 + 2\sqrt{2})\left(\frac{1}{\sqrt{2}}\right)$$

$$\rightarrow a^2 = 24 \rightarrow a = \sqrt{24} = 2\sqrt{6}$$

$$\frac{a}{\sin A} = \frac{b}{\sin B} \rightarrow \frac{2\sqrt{6}}{\frac{\sqrt{3}}{2}} = \frac{4}{\sin B} \rightarrow \sin B = \frac{1}{\sqrt{2}} \rightarrow B = 45^\circ$$

جواب

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فرض: $K = 1 + K - (r)(1)(V)C_{us} \rightarrow K C_{us} = 1 \rightarrow C_{us} = \frac{1}{K}$

در وقت خروج: $DE^2 = 14 + 24 - (2)(4)(4) \cos 90^\circ \Rightarrow DE^2 = 10$

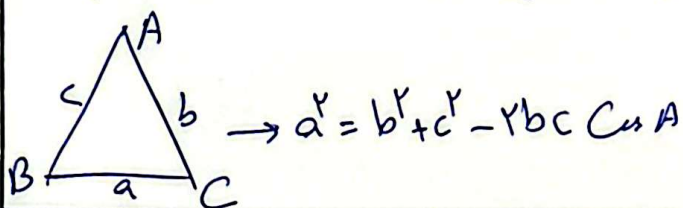
→ PE = 2110

$$B_C^T = 7\omega + 4E - (7)(\omega)(1) \bigg|_7 = \frac{2340}{1}$$

$\hookrightarrow BC = V \rightarrow$

$$S = \frac{1}{\mu} \sin \alpha \rightarrow \frac{1}{\mu} \times \omega \times 1 \times \frac{\sqrt{c}}{2} = 10 \sqrt{c} \rightarrow \text{جواب}$$

$$\frac{(b+c)^r - a^r}{bc(C_3A+1)} = \frac{\cancel{b^r} + \cancel{c^r} + rbc\cancel{b}^{r-1} + rbc\cancel{c}^{r-1} + rbcQA}{bc(C_3A+1)} = \frac{rbc(C_3A+1)}{bc(C_3A+1)} = \textcircled{r}$$



$$\frac{a^r + b^r - c^r}{a + b - c} = a^r \rightarrow \cancel{a^r + b^r - c^r} = \cancel{a^r} + a^r b - a^r c$$

$$\rightarrow (b - c)(b^2 + c^2 + bc) = a^2 (b - c)$$

مازوں کو مٹا دے

$$\rightarrow \cancel{b} + \cancel{c} + bc = \cancel{b} + \cancel{c} - 1bc \text{ Q3A} \rightarrow bc = -1bc \text{ Q3A}$$

$$\varnothing = \frac{1}{\rho} \rho b \sin \alpha \rightarrow r = \frac{1}{\rho} (\rho - c \cos \beta) (1 + c \cos \beta) \times \frac{1}{\rho} \sin \alpha$$

$$\rightarrow 3 + 4C_3\beta - C_3\beta - 3C_3^2\beta = 1 \rightarrow 3C_3^2\beta - 1C_3\beta + 3 = 0$$

$$\rightarrow \cos \beta \begin{vmatrix} 1 & \rightarrow \bar{3} \\ \sqrt{2} & \rightarrow \bar{3} \end{vmatrix} \Rightarrow a^2 = \varepsilon + 14 - (2)(1)(\varepsilon) \times \frac{\sqrt{2}}{2} = (20 - \sqrt{2})$$

