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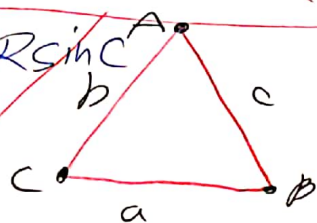


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$$n = 12$$

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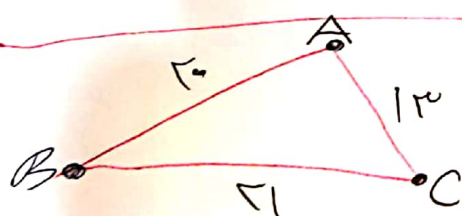




~~$b = \sqrt{\quad}$~~

برای چاپ

$$(b-1)(b+1) \Rightarrow b = 5 - 1$$



$$b = \sqrt{a^2 + c^2 - 2ac \cos \hat{B}} = \sqrt{1^2 + 1^2 - 2 \cdot 1 \cdot 1 \cdot \cos 135^\circ} = \sqrt{2 + 2} = 2$$

$$\Delta E_1 - \Delta E_0 \cos \beta = 199 \rightarrow \Delta E_0 \cos \beta = 945$$

$$C = S_B = \frac{qV_T}{kT_c} = \frac{1}{1.0}$$

$$\sinh^2 + \cosh^2 = 1$$

$$\sin \beta = 0.19$$

$$\frac{98}{100} + \sin^2 = 1 \rightarrow \sin^2 = \frac{02}{100} \rightarrow \sin \beta = 0,1$$

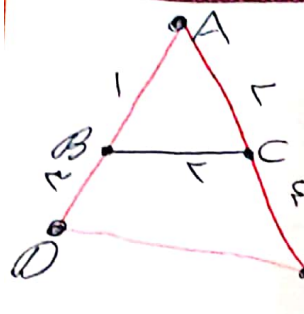
$$\triangle ABC \quad b = e \quad C = \angle(1 + \sqrt{e}) \quad \hat{A} = 4^\circ$$

$$q = \sqrt{19 + 8 + 1 + 1\sqrt{19}} = \sqrt{29} = 5.385$$

$$\frac{\sqrt{5}}{\sin 90^\circ} = \frac{E}{\sin \theta} \rightarrow \sqrt{5} = \sqrt{5} \sin \theta \rightarrow \sin \theta = \frac{1}{\sqrt{5}} = \frac{\sqrt{5}}{5} \Rightarrow \theta = 26.5^\circ$$

$$\hat{B} = 40^\circ, \hat{A} = 90^\circ \rightarrow \text{In.} - \text{I.D.} = \text{V.D.} \quad \hat{C} = 90^\circ$$

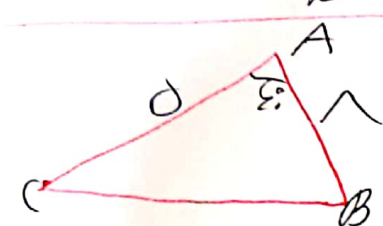
$$\hat{B} = \epsilon \hat{O}, \hat{C} = V \hat{O}$$



$$DE = ?$$

$$BC = \sqrt{1 + 1 - 2 \cos A} \rightarrow 1 + 1 - 2 \cos A = 1 \rightarrow \cos A = \frac{1}{2}$$

$$DE = \sqrt{1 + 1 - 2 \cos A} = \sqrt{1} = 1$$



$$BC = \sqrt{1 + 1 - 2 \cos A} = \sqrt{1} = 1$$

$$\frac{1}{2} \times 1 \times 1 \times \sin 60^\circ = \frac{1}{2} \times 1 \times \sqrt{3}$$

$$S_{ABC} = \frac{1}{2} \times 1 \times \sqrt{3}$$

$$\frac{(b+c)^2 - a^2}{bc(\cos A + 1)}$$

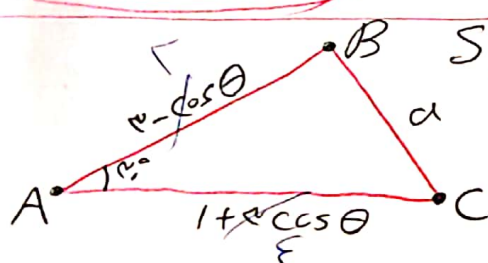
$$\frac{b^2 + c^2 + 2bc - (b^2 + c^2 - 2bc \cos A)}{bc(1 + \cos A)} = \frac{2bc(1 + \cos A)}{bc(1 + \cos A)} = 2$$

$$\frac{a^2 + b^2 - c^2}{a+b-c} = a$$

$$a^2 + b^2 - c^2 = a^2 + a^2 b - a^2 c$$

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

$$\cos A = -\frac{1}{2} \quad bc = -2bc \cos A \rightarrow \cos A = -\frac{1}{2} \rightarrow A = 120^\circ$$



$$S_{ABC} = \frac{1}{2} \quad a^2 = ?$$

$$r = \frac{1}{2} (r - \cos \theta) (1 + r \cos \theta) \sin r$$

$$(r + r \cos \theta - \cos \theta - r \cos^2 \theta)$$

$$r = \frac{1}{2} (-r \cos^2 \theta + 1 \cos \theta + r) \Rightarrow 1 = -r \cos^2 \theta + 1 \cos \theta + r$$

$$\rightarrow r \cos^2 \theta + 1 \cos \theta + 0 \rightarrow \cos^2 \theta + 1 \cos \theta + 0 = 0$$

$$(\cos \theta - \frac{r}{2})(\cos \theta - \frac{1}{2}) = 0$$

$$a^2 = 1 + 1 - 1 \times 1 = 1$$

$$a^2 = 1 - 1 \times 1 = 0$$

$$\cos \theta = 1$$