

$$\triangle BCF \sim \triangle AFE \Rightarrow \frac{BC}{AE} = \frac{FC}{AF} = \frac{BF}{FE} = 3$$

$$\left. \begin{array}{l} AC = 2\sqrt{3}x \Rightarrow AF = \frac{3\sqrt{2}}{4} \\ BE = \sqrt{10}x \Rightarrow FE = \frac{\sqrt{10}x}{4} \end{array} \right\} \frac{EF}{AF} = \frac{\sqrt{10}}{3\sqrt{2}} = \frac{\sqrt{5}}{3}$$

$\frac{\sqrt{20}}{4} = \frac{\sqrt{5}}{3}$

$\left. \begin{array}{l} \hat{A} = \hat{A} \\ \hat{E} = \hat{C} \end{array} \right\} \Rightarrow \triangle AED \sim \triangle ABC$

$$\frac{AD}{AB} = \frac{AE}{AC} \Rightarrow \frac{2}{1} = \frac{x}{13} \Rightarrow x = 13$$

$$\triangle DEH \sim \triangle HFC \Rightarrow \frac{DE}{FC} = \frac{EH}{HF} = \frac{3}{5} \Rightarrow DE = 3z, FC = 5z$$

$$DE \parallel BC \Rightarrow \frac{DE}{BC} = \frac{AD}{AB} \Rightarrow \frac{3z}{12} = \frac{2}{3} \Rightarrow 9z = 24 \Rightarrow z = \frac{8}{3}$$

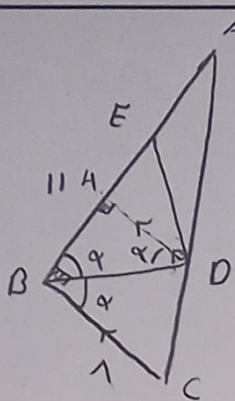
$$AB^2 = 2 \times 8 \Rightarrow AB = \sqrt{16} = 4$$

$$BC^2 = 4 \times 2 \Rightarrow BC = \sqrt{8} = 2\sqrt{2}$$

$$\left. \begin{array}{l} \hat{E} = \hat{E} = 90^\circ \\ \hat{A} = \hat{C} \end{array} \right\} \Rightarrow \triangle AEF \sim \triangle CEF$$

$$\frac{FC}{AF} = \frac{EF}{BF} \Rightarrow \frac{6}{4} = \frac{EF}{2} \Rightarrow EF = 3$$

$$\Rightarrow EA = AE + EF \Rightarrow EF = 3$$



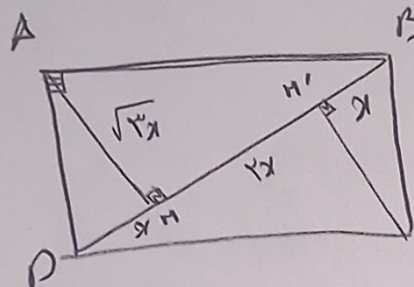
از میان دایره برداریم ۱۵ سانت

$\alpha = 45^\circ$

نسبت) $\frac{AH}{AB} = \frac{HD}{BC} \Rightarrow \frac{AE + \frac{11}{4}}{AE + 11} = \frac{\frac{11}{4}}{8}$

$$\Rightarrow AE = \frac{33}{5}$$

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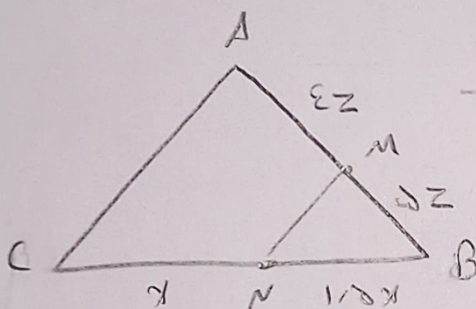


$$B \quad \left. \begin{aligned} \Delta H' &= D H \times H B \\ C H' &= B H' \times D H' \end{aligned} \right\} \Delta H = C H' = \sqrt{r} x$$

فقط $\rightarrow AD = BC = 2x / AB = DC = 2\sqrt{3}x$

$$\frac{\sum \text{مستقل}}{\sum \Delta \theta_{\text{H}}} = \frac{\varepsilon \sqrt{x} x^2}{\frac{\sqrt{x}}{x} x^2} = \underline{\underline{1}}$$

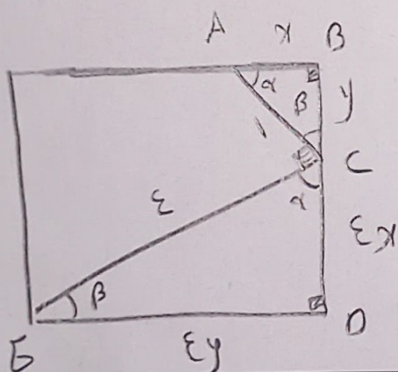
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$$\frac{S_{ABC}}{S_{BMN}} = \frac{\frac{1}{\cancel{r}} \cancel{\sin \beta} \times AB \times \cancel{CB}^{r \cdot dx}}{\frac{1}{\cancel{r}} \times \cancel{\sin \beta} \times MB \times \cancel{AB}^{1 \cdot dx}} = \frac{r}{1}$$

$$\frac{AB}{MB} = \frac{q}{d} \Rightarrow \frac{BM}{AM} = \frac{d}{\epsilon} = 1,45$$

人



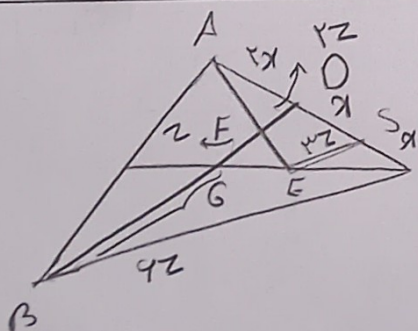
$\triangle ABC \cong \triangle CED \Rightarrow$

$$x_{dy} = 14 \Rightarrow x_{dy} = \frac{14 \times 14}{2} \times 1.31 \text{ m}$$

$$\Rightarrow \varepsilon y = \varepsilon x + y \Rightarrow ry = \varepsilon x \xrightarrow{(1)^r} qy^r = 1y^r$$

$$A^D B^D C^D = x^D + y^D = 1 \Rightarrow x^D = 1 - y^D$$

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١٠ E مختلفا: DE في S (ES)

$$\frac{r_C}{r_E} = \frac{r_C}{r_E} = \frac{r_C}{r_E} \Rightarrow CS = SD$$

$$J_{\text{cut}} = \frac{DE}{ES} = \frac{\cancel{YZ}}{\cancel{YZ}} \Rightarrow \frac{BD}{FD} = \frac{YZ}{YZ}$$

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