

$$\frac{SBCE}{SBDE} = \frac{EH \times BC}{BH' \times DE} \Rightarrow \frac{EH \times \frac{1}{\omega} \times BC}{BH' \times \frac{\omega}{1\gamma} \times BC} = \boxed{\frac{1\gamma}{\omega}}$$

$$DE \parallel BC \xrightarrow{\text{C.A.T.}} \frac{AD}{AB} = \frac{DE}{BC} = \frac{1}{2} \Rightarrow DE = \frac{1}{2} BC$$

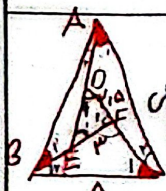


m4? $ABMD \Rightarrow AD, BM, AB, DM$

$$\left. \begin{aligned} \hat{M}_1, \hat{M}_2 &= 90^\circ \\ \hat{D}_1, \hat{D}_2 &= \alpha \\ \hat{O}_M, \hat{P}_M & \end{aligned} \right\} \rightarrow \Delta H_M \cong \Delta M_B \rightarrow \begin{cases} HM, MB \\ DH, DB = \alpha \end{cases}$$

$$H_c, O_c - pH = 9 - \omega - \kappa$$

$$\frac{BM}{MH} = \frac{BH'}{HC} \quad \text{[Similar Triangles]} \quad \frac{MB}{BH} = \frac{MH'}{HC} = \frac{1}{r} = \frac{MH'}{r}$$

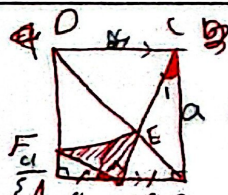


$AB = ?$

$\hat{C}_1 + \hat{B}_1 \xrightarrow{\hat{C}_1, \hat{B}_1} \hat{F}_1 \xrightarrow[\text{ABC opposite}]{} \hat{E}_1 = \hat{A}_1 + \hat{B}_1 \xrightarrow{\hat{B}_1, \hat{A}_1} \hat{E}_1 = \hat{A}_1$

$C \quad \left. \begin{matrix} \hat{F}_1 & \hat{B}_1 \\ E_1 & A_1 \end{matrix} \right\} ii) E_1 F D \sim \triangle ABC \rightarrow \frac{FE}{BA} = \frac{FD}{BC} = \frac{ED}{AC}$

$$\frac{P}{BA} = \frac{P_1 \omega}{A} \rightarrow BA = \frac{P \times A}{\frac{P_1 \omega}{A}} = \frac{P \times A}{\frac{1000}{A}} = \frac{P \times A^2}{1000} = \boxed{4,4}$$

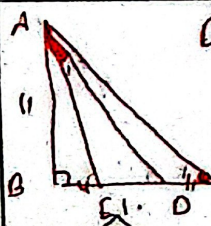


$$C_i = \frac{\hat{m}_i}{\hat{\sigma}_i^2} \xrightarrow{ii} \frac{a}{m_{CB}} \sim \frac{\Delta}{FMA} \rightarrow \frac{CB}{MA} = \frac{BM}{FA} = \frac{MC}{FM}$$

$PC \parallel MB \xrightarrow{\text{Alt Angles}} \frac{PC}{MB} = \frac{CE}{EM} \xrightarrow{\text{Alt Angles}} \frac{CE}{EM} = \frac{CM}{EM} \Rightarrow EM = \frac{CM}{r}$

$$F_M \xrightarrow{\text{Hyp}} F_M, \sqrt{F_A^2 + A_M^2} = \sqrt{\omega} a, \quad C_M = \sqrt{C_B^2 + B_M^2} = \frac{\sqrt{\omega}}{4} a \rightarrow E_M = \frac{\sqrt{\omega}}{4} a$$

$$S_{MEF}^{\Delta} = \frac{1}{r} F_M \times B_M \Rightarrow \frac{\sqrt{2} \times 416}{\pi} \times \frac{\sqrt{2} \times 4}{4} \times \frac{1}{r} = \frac{10}{\pi}$$



DC? $\hat{E} = \hat{E} \Rightarrow \triangle AED \sim \triangle EAC \rightarrow \frac{AE}{CE} = \frac{ED}{AE}$

$$\Rightarrow \frac{AE}{1+n} = \frac{1}{AE} \Rightarrow AE^2 \cdot 1 \dots + 1 \cdot n \Rightarrow 1 + n^2 \cdot 1 \dots + 1 \cdot n$$

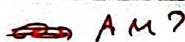
$$A \rightarrow AE^T, BE^T, II^T, III^T + \dots \quad (1)$$

$$\Rightarrow n^r - 1, n - r, 0$$

$$\frac{(n - \mu)(n - \nu) \dots}{n_1 \mu_1 \nu_1 \dots}$$



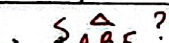
$$BC^T, CF \times CA \rightarrow BC^T, 14 \times 14 \rightarrow \boxed{BC, 2 \wedge \sqrt{a}}$$




 $\triangle ABC$ قائم الزاوية $\angle A = 90^\circ$ $AM \perp BC$ $BM = 4$ $MC = 9$

$$\Delta AMB \text{ ۛ ۛ ۛ } = AM^2 + MB^2 + AB^2 \implies AM^2 + 12^2 + 14^2 = 14^2$$

$$AM, \sum \sqrt{1.}$$



$$(\epsilon - n)^r + r^2 n^r \Rightarrow 14 + 2^r - \wedge n + \epsilon = n^r \rightarrow n \geq r, \Delta$$

$OC \supset OB \xrightarrow[\text{مور منفی}]{\text{مور مثبت}} \text{در صورتی که } OA \Rightarrow BE \cap EC \stackrel{\text{① } BC \perp \sqrt{a}}{\Rightarrow} BE \cap EC \perp \sqrt{a}$

$$\text{مفاد } BC^2 + BO^2 + DC^2 \Rightarrow BC + 2\sqrt{\omega} \quad \text{①} \quad \left\{ \begin{array}{l} BO \\ OE \end{array} \right\} \Rightarrow BO^2 - BO \cdot OE + OE^2 \Rightarrow OE \cdot \frac{\sqrt{5}}{2}$$

$$BE^r \circ E, EA \rightarrow \omega = \frac{\sqrt{\omega}}{y} \times EA = \frac{\sqrt{\omega}}{y} \in EA$$

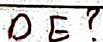
$$SABE, \frac{1}{f} BE, EA$$

$$= \sqrt{\omega} \times \frac{1}{f} \times \sqrt{\omega} \quad \omega$$



Sub: $AB^T = CB^T + AC^T \Rightarrow AB_2 = 4\sqrt{10}$

$\Delta_{COB} \Rightarrow BD^T, BC \times BE \Rightarrow \frac{w^4}{T_c} = 4 \times BE \rightarrow [BE, \lambda, 1]$



$$\hat{D} = \hat{B} \frac{\text{عكس النقطه}}{\text{قطبها}} \quad DE \parallel BC \xrightarrow{\text{نقطة وسطه}} \frac{DE}{BC} = \frac{AE}{AC} \stackrel{①}{\Rightarrow} \frac{DE}{12} = \frac{4}{20}$$

DESIGN

c. $\Delta ABC \rightarrow AC^2 + BA^2 + BC^2 \rightarrow AC^2$

$$\rightarrow \hat{ABC} \rightarrow Bc^r, cH, Ac \rightarrow 1 \text{ E } 2 \text{ cH } \times r. \rightarrow cH, v, r$$

$$\Rightarrow AE, \frac{12, 1 \text{ A}}{V}, 4, 5 \text{ (1)}$$