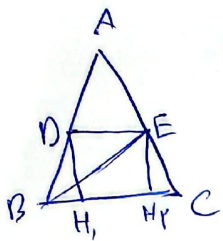
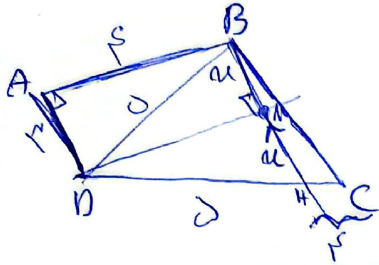


بسم الله الرحمن الرحيم
(1)



$$DE \parallel BC \rightarrow \frac{AD}{AB} = \frac{DE}{BC} \rightarrow \frac{D}{1r} = \frac{DE}{BC}$$

$$\frac{S_{\triangle BCE}}{S_{\triangle BDE}} = \frac{EH \times BC}{DH \times DE} = r, r$$



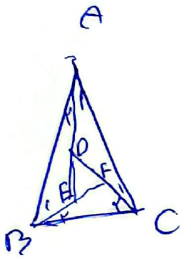
$$\left. \begin{array}{l} AD \parallel BM \\ BM \parallel AB \\ A = 90^\circ \end{array} \right\} \Rightarrow \square ABCD \quad BM = r, DM = r$$

$$ME \parallel BC$$

$$BM = MH = r \quad \frac{CE}{CB} = \frac{MH}{HD} = \frac{1}{r}$$

$$DC = DB$$

$$\frac{ME}{HC} = \frac{BE}{DC} = \frac{1}{r} \rightarrow \underline{ME = r}$$

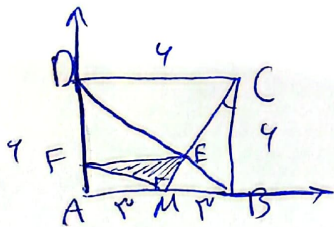


$$\left. \begin{array}{l} D = A + C_1 \\ A = C_1 \end{array} \right\} \rightarrow D_1 = C_1 + C_2$$

$$\left. \begin{array}{l} F = B_1 + C_1 \\ C_1 = B_1 \end{array} \right\} \rightarrow F = B_1 + B_2$$

$$\Rightarrow DEF \sim ABC$$

$$\frac{FE}{AB} = \frac{DE}{BC} \sim \left(AB = \frac{94}{1} \right) \sim 9,7$$



$$MCB \sim AMF \rightarrow \frac{AM}{BC} = \frac{AF}{BM} = \frac{FM}{MC}$$

$$\frac{r}{9} = \frac{AF}{r} = \frac{FM}{MC} \rightarrow AF = 1,0$$

$$F = (0, 1, 0) \quad M = (r, 0)$$

$$B = (4, 0) \quad D = (0, 4)$$

$$C = (4, 0)$$

$$BD = y = 4x + 4 \quad MC = y = 4x - y$$

$$m = \frac{-4}{4}$$

$$m = \frac{4}{r}$$

$$ME = \sqrt{r^2 + 1^2} = \sqrt{5}$$

$$FM = \sqrt{r^2 + \left(\frac{4}{r}\right)^2} = \frac{r}{r} \sqrt{5}$$

$$S_{EMF} = \frac{\sqrt{5} \times \frac{r}{r} \sqrt{5}}{r} = \left(\frac{10}{r} \right) \left(\frac{r}{1} \right) \rightarrow \underline{\text{جواب}}$$



$$BC = \frac{FC \times AC}{14 \times 1} = BC = \sqrt{14 \times 1} = 150$$



$$A, A', (A \vee A')$$

$$u^r = 14x^r + 14x^r \Rightarrow u = \sqrt{14} = \sqrt{14 \cdot 1}$$



OE $\rightarrow$ ~~240~~
~~240~~
~~240~~

$$BC = \sqrt{r^2 + r^2} = r\sqrt{2} = rBE = rEC$$

$$\rightarrow BE = EC = \sqrt{2}r$$

$$AEC \sim BCD \Rightarrow \frac{r}{\sqrt{5}} = \frac{r}{AE} = \frac{r\sqrt{5}}{5} \Rightarrow AE = r\sqrt{5}$$

$$S_{ABE} = \frac{\sqrt{5} \times \sqrt{5}}{4} = 1$$



$$AB^r = \sqrt{(u+q-u)^r + (r)^r} = r\sqrt{1}. \quad \frac{AC}{BC} = \frac{CD}{q} \rightarrow \frac{r}{r\sqrt{1}} = \frac{CD}{q} \Rightarrow CD = \frac{q}{\sqrt{1}}$$

$$\frac{DE}{BC} = \frac{ED}{AC} \rightarrow \frac{4}{9} = \frac{ED}{17} \rightarrow \frac{4 \times 17}{9} = ED$$

$$\frac{BD}{AD} = \frac{BE}{r} \Rightarrow BD = \frac{\sqrt{10} \cdot r}{r} \quad \left(\frac{\sqrt{10}}{r} \cdot r \right) = 9 \times 1,1 \Rightarrow 1,1$$

$\frac{2}{3} \times \frac{2}{3} = \frac{4}{9}$

$$ADE \sim ABH \Rightarrow \frac{DE}{BH} = \frac{AE}{AB} \Rightarrow \frac{DE}{17} = \frac{AE}{17}$$

$$\triangle ABC \xrightarrow{ol} \frac{AB \times BC}{r} = \frac{BH \times AC}{r} \Rightarrow \frac{17 \times 17}{r} = \frac{BH \times 17}{r} \Rightarrow BH = 17$$