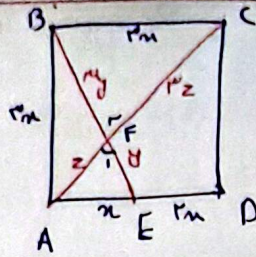


$BE = \sqrt{10} \cdot n$

$AC = \sqrt{17} \cdot n$



$\Rightarrow fZ = \sqrt{17} \cdot n \Rightarrow Z = \frac{\sqrt{17} \cdot n}{f}$

$ty = \sqrt{10} \cdot n \Rightarrow y = \frac{\sqrt{10} \cdot n}{f}$

$\frac{EF}{AF} = \frac{\frac{\sqrt{10} \cdot n}{f}}{\frac{\sqrt{17} \cdot n}{f}} = \frac{\sqrt{10}}{\sqrt{17}} = \frac{\sqrt{10} \cdot \sqrt{17}}{\sqrt{17} \cdot \sqrt{17}} = \frac{\sqrt{170}}{17}$

(۵)

$\sqrt{\frac{10}{17}}$

$\triangle AED \sim \triangle ABC$

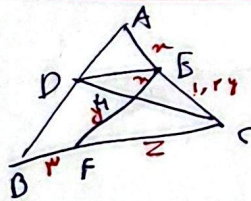
$A \rightarrow A$
 $E \rightarrow C$
 $D \rightarrow B$

$\Rightarrow \frac{AE}{AB} = \frac{ED}{BC} = \frac{n}{10} \Rightarrow n^2 + m^2 = r^2 \Rightarrow n^2 + m^2 - r^2 = 0$

$\Rightarrow n = \frac{r^2 - m^2}{2m}$

$\frac{r^2 - m^2}{2m}$

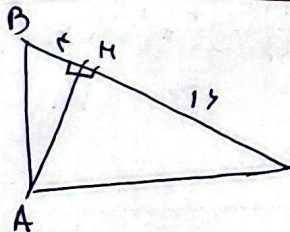
(۵)



$xy < am \Rightarrow \frac{x}{y} < \frac{a}{m} \Rightarrow \frac{DE}{BC} < \frac{a}{m} \Rightarrow DE < \frac{a}{m} \cdot m$

$\Rightarrow \frac{DE}{BC} < \frac{AE}{AC} \Rightarrow \frac{x}{y} < \frac{z}{w} \Rightarrow \frac{x}{z} < \frac{y}{w} \Rightarrow \frac{x}{y} < \frac{z}{w} \Rightarrow \frac{x}{y} < \frac{z}{w} \Rightarrow \frac{x}{y} < \frac{z}{w}$

$\Rightarrow 0 < r^2 + g^2 - l^2 < \frac{r^2}{2}$



$AH^2 = BH \times CH = xy \Rightarrow AH = \sqrt{xy}$

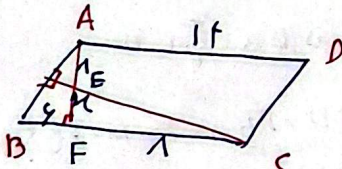
$\frac{AC}{AB} = \frac{AH}{BH} = \frac{1}{f} \Rightarrow \frac{AC}{AB} = \frac{1}{f}$

$\triangle ABH \sim \triangle ABC$

(۵)

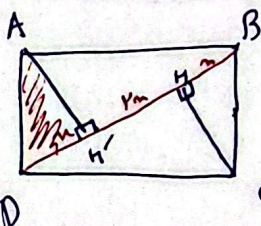
$\triangle AEF \sim \triangle CEF \Rightarrow \frac{BF}{EF} = \frac{AF}{CF} \Rightarrow \frac{f}{n} = \frac{1+n}{1} \Rightarrow n(n+1) = 1 \Rightarrow n^2 + n - 1 = 0$

$AF = n + 1$



(۵)

مسئله ۱ را به ازای ۷ به دست آوریم



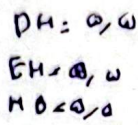
$n^2 = m \times m \Rightarrow h = \sqrt{m} \cdot n$

$S_{\text{مستطیل}} = 2 \times S_{ABP} + 2 \times \frac{\sqrt{17} \cdot n \times m}{2} = \sqrt{17} \cdot n \times m = \sqrt{17} \cdot n^2$

(۵)

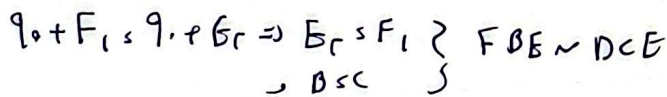
$\Rightarrow \frac{h \times n}{r} = \frac{\sqrt{17} \cdot n^2}{r} \Rightarrow \frac{1}{r} = \frac{\sqrt{17} \cdot n}{r} \Rightarrow \frac{1}{\sqrt{17} \cdot n} = \frac{1}{r}$

(۵)



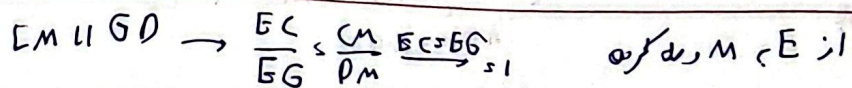
$$\{ \{ \tau \wedge A \in \mathcal{D}, \Delta A \in \mathcal{D} \} \} \cup \emptyset$$

AB5 107



$$\Rightarrow \frac{FE}{DE} = \frac{FO}{GC} = \frac{OE}{OC} = \frac{1}{2}$$

$$\Rightarrow DC: f(x) \wedge x \in U \mid f = \{x \in U \mid x \in U, f \in U\} \quad \boxed{1, 2, f}$$



ADPM $\tau = \text{Cms Dms m}$

$$E_M \parallel PG \rightarrow \frac{CM}{CD} = \frac{EM}{GD} = \frac{m}{r_m} = \frac{EM}{GP} \Rightarrow GD = r_m EM \rightarrow GD = r \left(\frac{r}{r_m} EM \right)$$

$$= \frac{BD}{FD} s^2 \leftarrow \frac{1}{r} \frac{r_{FD}}{BD} \leftarrow \frac{GD}{BD} s \frac{1}{r}$$