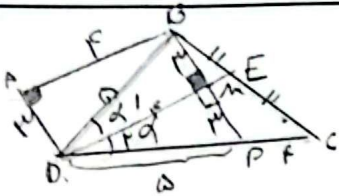


$$\frac{A-A}{E=C} \vdash ADE \sim ABC \rightarrow \frac{\Delta}{1r}, \frac{s_{BC}}{s_{DE}} = \frac{BC}{DE} = \frac{1r}{2r}$$

1

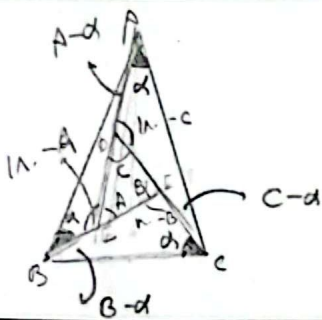


$$D_1 = D_2 = \alpha \rightarrow DM \text{ بیان} \rightarrow BM = MP = \mu$$

$$ME = \frac{PC}{Y} = Y$$

Y

ABMD ~ ۲۲۲۵۰۰
شماره



$$ABC \sim DEF$$

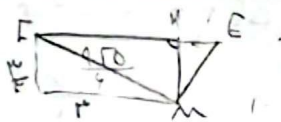
$$\frac{P_0}{\lambda} = \sum_n \sim n^3 \alpha^4$$

३

$$A \cap B = \mu$$

$$AD = DC = CB = BA = 9$$

DB



$$\frac{q}{\epsilon} = \frac{HE' x d''}{\frac{S_w}{F}} \quad \left| \rightarrow FE = \frac{10}{F} \right.$$

$$AFM \sim BM \quad \rightarrow \quad \frac{AF}{BM} = \frac{FM}{ME} = \frac{AM}{BC}$$

$$S = \frac{1\omega}{F} \times \frac{r}{r} \times \frac{1}{r} = \frac{r\omega}{19}$$

f

$$BE = DC = n \rightarrow BC = n+1.$$

$$ABE \sim ABC \sim ABD \rightarrow \frac{AE}{AC} = \frac{BE}{BC} = \frac{r}{r_{\text{int.}}}$$

$$\frac{AD}{AC} = \frac{BD}{BC} = \frac{n+1}{n+1}$$

$$\frac{AD}{AC} = \frac{n+1}{n+1} = \frac{n(n+1)}{(n+1)(n+1)}$$

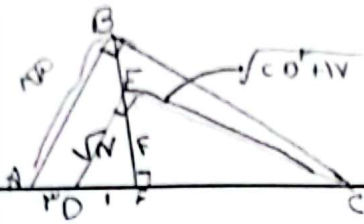
$$(x-2)(x-1) \leq 0 \Rightarrow x = 1 \vee$$

△

$$ABC \sim CED \Rightarrow \frac{BC}{CE} = \frac{AC}{CD} = \frac{1 + DC}{DC} \Rightarrow BC = CE \times \frac{1 + DC}{DC}$$

$$BC^2 = \left(\sqrt{CD^2 + 1} \right)^2 \cdot \frac{1 + DC}{DC}$$

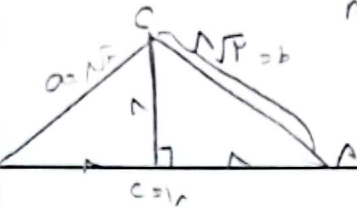
$$BC = a$$



8

$$m_0 = \frac{1}{r} \sqrt{r^2 b^2 + r^2 c^2 - a^2} \quad \frac{a = \sqrt{r^2 b^2 + r^2 c^2 - a^2}}{c = 19} \quad \frac{1}{r} \sqrt{r^2 (19^2) + r^2 (19^2) - 19^2}$$

9



$$D = C = 90^\circ$$

$$BD \parallel AC \rightarrow BD + DC = BC \rightarrow BC = \sqrt{10} \times r$$

$$\therefore OE = OB = OC = \sqrt{10}$$

10

$$\frac{AC}{BC} = \frac{\sqrt{10}}{r} \quad h_1 + h_2 = CD = 5 \rightarrow \frac{h_2}{h_1} = \frac{\sqrt{10}}{r} \rightarrow h_2 = \frac{\sqrt{10}}{r} \cdot h_1$$

$$S_{ABE} = S_{ADE} - S_{AEC} = 1\sqrt{10} - (1 \cdot \sqrt{10} \cdot r)$$

$$AC \perp BC \rightarrow AC \parallel DE \quad BC - CE = BE = 1/1$$

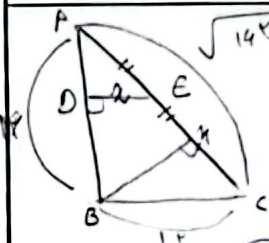
$$BC = 9 \quad AC = 1 \quad AB = \sqrt{10}$$

$$AC^2 = AD \times AB \rightarrow 9 = AD \times \sqrt{10} \rightarrow AD = \frac{9\sqrt{10}}{10} \quad CD = \sqrt{10} - \frac{9\sqrt{10}}{10} = \frac{1\sqrt{10}}{10}$$

11

$$CD^2 = \frac{9 \times 9 \times 1}{10} = CE \times 9 \rightarrow CE = \frac{9}{10}$$

12



$$AB \perp BC = BH \perp AC \rightarrow BH = 9/4$$

$$\frac{DE}{BH} = \frac{AE}{AB} \rightarrow DE = 13/18$$