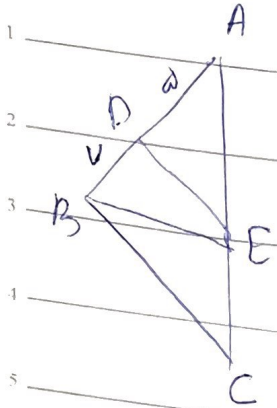
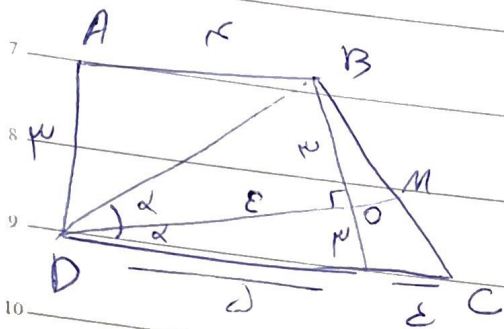


سنا ابراهيم يا دهم رقت C



$$DE \parallel BC \rightarrow \frac{AB}{AD} = \frac{AC}{AE} = \frac{BC}{DE} = \frac{12}{10} \quad (1)$$

$$\frac{S_{BCE}}{S_{BDE}} = \frac{\frac{1}{2} \times h \times BC}{\frac{1}{2} \times h \times DE} = \frac{12}{10} = \frac{6}{5} \quad (2)$$

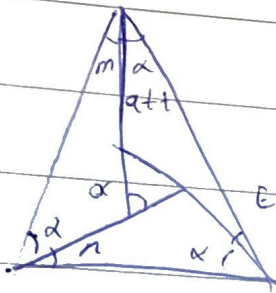


$$A = 90^\circ \Rightarrow ABMD \text{ مستطیل} \quad (3)$$

$$D_1 = D_2 \Rightarrow \angle MDB, \angle MDE \text{ قائم الزاویه} \rightarrow DM = \epsilon$$

$$PF = \delta, FC = \kappa \Rightarrow MF = BM = \kappa$$

$$\text{طبقه اول} \rightarrow \frac{BM}{BF} = \frac{MO}{FC} = \frac{\kappa}{\delta} = \frac{1}{4} \Rightarrow MO = \kappa$$



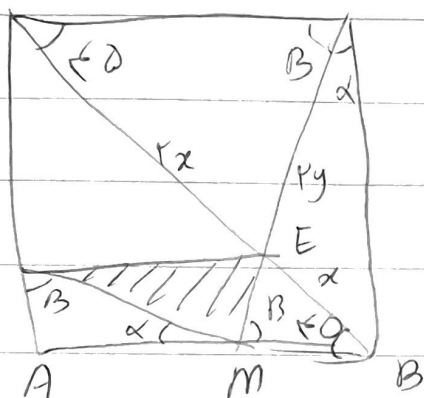
$$\text{مستطیل } ADC \text{ و } DEF \text{ مستطیل} \quad (4)$$

$$F = \alpha + t$$

$$E = \alpha + m$$

$$\left. \begin{array}{l} F = B \\ D = C \\ E = A \end{array} \right\} \rightarrow \frac{AB}{\kappa} = \frac{A}{\gamma, \delta} \Rightarrow \gamma, \delta AB = \gamma E \quad \boxed{AB = 9/5}$$





$$\tan \beta = \frac{AM}{AF} = \frac{BC}{MB} = \frac{r}{AF} = r \quad (1)$$

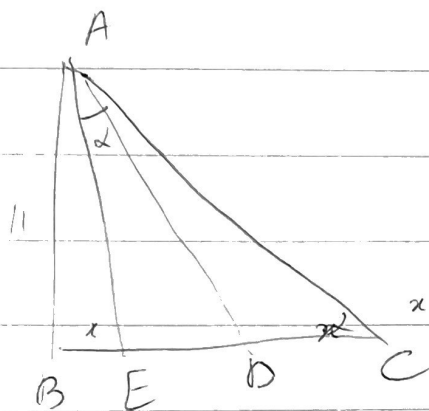
$$MF = \sqrt{\left(\frac{\mu}{\gamma}\right)^2 + \mu^2} = \sqrt{\frac{\epsilon_0}{\epsilon}} = \frac{\mu \sqrt{\epsilon_0}}{\gamma} \rightarrow AF = \frac{\mu}{\gamma}$$

$$\begin{aligned} \hat{E}_1 &= \hat{E}_Y \\ DCE &= BME \end{aligned} \rightarrow DCE \sim MEB$$

$$\rightarrow \frac{4}{x} = 4$$

$$\rightarrow \mu_y = \sqrt{\gamma^p \mu^p} = \sqrt{\epsilon \delta} = \mu \sqrt{\delta} \quad (\gamma = \sqrt{\delta})$$

$$S_{FEM} = \frac{1}{r} \times M_F \times EM = \frac{1}{r} \times \frac{r\sqrt{0}}{r} \times \sqrt{0} = \left[\frac{10}{\varepsilon} \right]$$



$$\alpha = \alpha$$

$$E - E$$

$$D_1 - A\alpha$$

$$\rightarrow CAE \sim AED$$

$$=, \frac{AE}{ED} = \frac{EC}{AE} =$$

$$\frac{\sqrt{x^p+1}}{x+1} = \frac{x+1}{\sqrt{x^p+1}} \Rightarrow x^p+1 = 1 \cdot x+1$$

$$x^2 - 1 \cdot x + 41 = 0$$

$$x = y = \infty$$

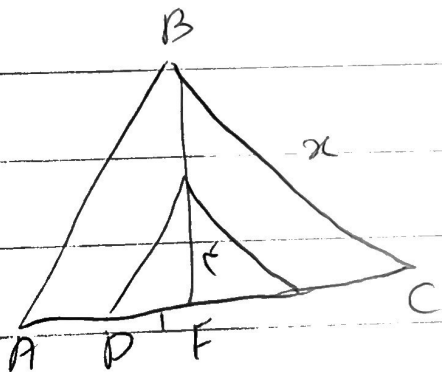
$$x = v$$

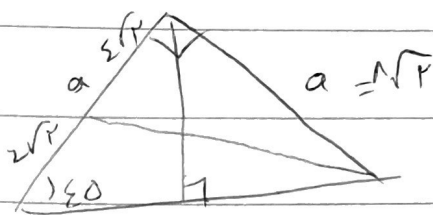
$$EF^y = DF \times CF \rightarrow 14 = 1 \times CF \text{ (9)}$$

$$\rightarrow CF = 12$$

$$x^P = CF \times AC \Rightarrow x^P = 14 \times 1$$

$$x = \sqrt{a} \times \sqrt{b} = \sqrt{a \times b}$$

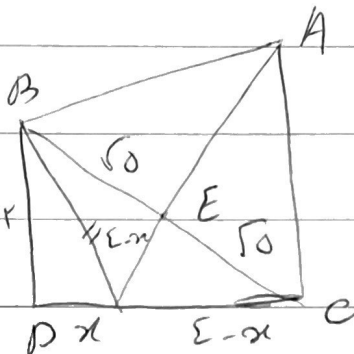




$$\varphi a^r = 14^r \rightarrow a^r = 14 \times 14$$

$$\rightarrow a = \varepsilon \times \varphi \sqrt{r} = 14 \sqrt{r}$$

$$x^r = \sqrt{(14\sqrt{r})^r + (\varepsilon\sqrt{r})^r} = \sqrt{14} = \varepsilon\sqrt{r}$$



$$BC = \sqrt{r^r + \varepsilon^r} = 2\sqrt{5}$$

بoc متوازياتين - معاً في ارتفاع مشترك

$$(\varepsilon - x)^r = \varepsilon + x^r \rightarrow x^r - 14x + 14 = x^r + \varepsilon$$

$$\Rightarrow x = \frac{r}{4}$$

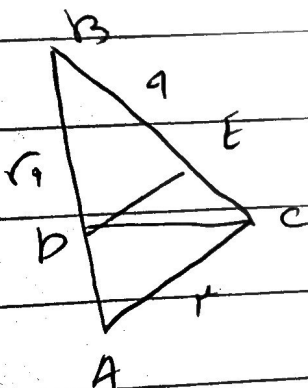
$$BO \rightarrow \varepsilon - x = \varepsilon - \frac{r}{4} = \frac{3}{4}$$

$$OEC \Rightarrow OE^r = \left(\frac{3}{4}\right)^r - (\sqrt{5})^r = \frac{9}{16} - 5 = \frac{9}{16} - \frac{80}{16} = -\frac{71}{16}$$

$$OE = \frac{\sqrt{5}}{r} \Rightarrow AO \times OE = OC^r \rightarrow AO \times \frac{\sqrt{5}}{r} = \left(\frac{3}{4}\right)^r$$

$$AO = \frac{r}{2\sqrt{5}} \Rightarrow \frac{\partial \sqrt{5}}{r} \rightarrow S_{AEB} = \frac{1}{r} \times \sqrt{5} \left(\frac{\partial \sqrt{5}}{r} - \frac{\sqrt{5}}{r} \right)$$

= 0



$$BC^r = BD \times AB \rightarrow 9^r = BD \times \sqrt{9}$$

$$\Rightarrow BD = \frac{11}{\sqrt{9}} = \frac{11}{3}$$

$$BD^r = BE \times BC \rightarrow \left(\frac{11}{3}\right)^r = BE \times 9$$

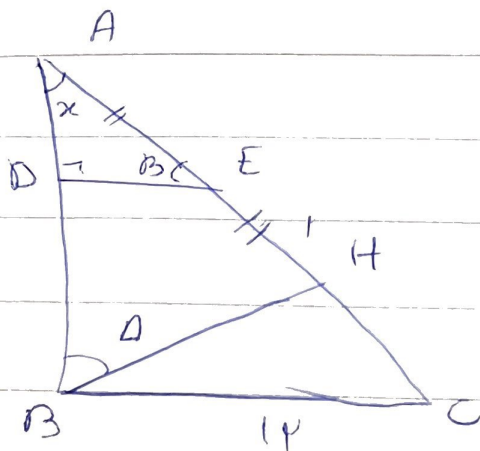
$$BE = \frac{11 \times 11}{10 \times 9} = \frac{121}{90}$$



Senobar

$$\sqrt{x^r + 141} \Rightarrow x^r + 141 = 1.2$$

(1.)



$$AC = 20$$

$$BH \times AC = AB \times BC$$

$$\rightarrow BH \times 20 = 14 \times 14$$

$$\Rightarrow BH = \frac{14}{5} = 9.9$$

$$AH = \sqrt{20^2 - 9.9^2} = 12.1$$

$$\Rightarrow \left. \begin{array}{l} \angle A = \angle A \\ \angle H = \angle D \end{array} \right\} \rightarrow \triangle ADE \sim \triangle AHB$$

$$\rightarrow \frac{DE}{BH} = \frac{AE}{AB}$$

$$\Rightarrow \frac{DE}{\frac{14}{5}} = \frac{20}{14}$$

$$\frac{14}{5}$$

$$\frac{20}{14}$$

$$\Rightarrow DE = \frac{14}{5} \times \frac{20}{14} = 4$$

