

۲۱۵، ۸۵

از دهم اختر A

$$t = AF$$

Conclusion

④ $y = EF$

$$\frac{\frac{\sqrt{10}}{2} \pi}{\frac{\sqrt{2} \pi}{2}} = \frac{\sqrt{2}}{2} \pi$$

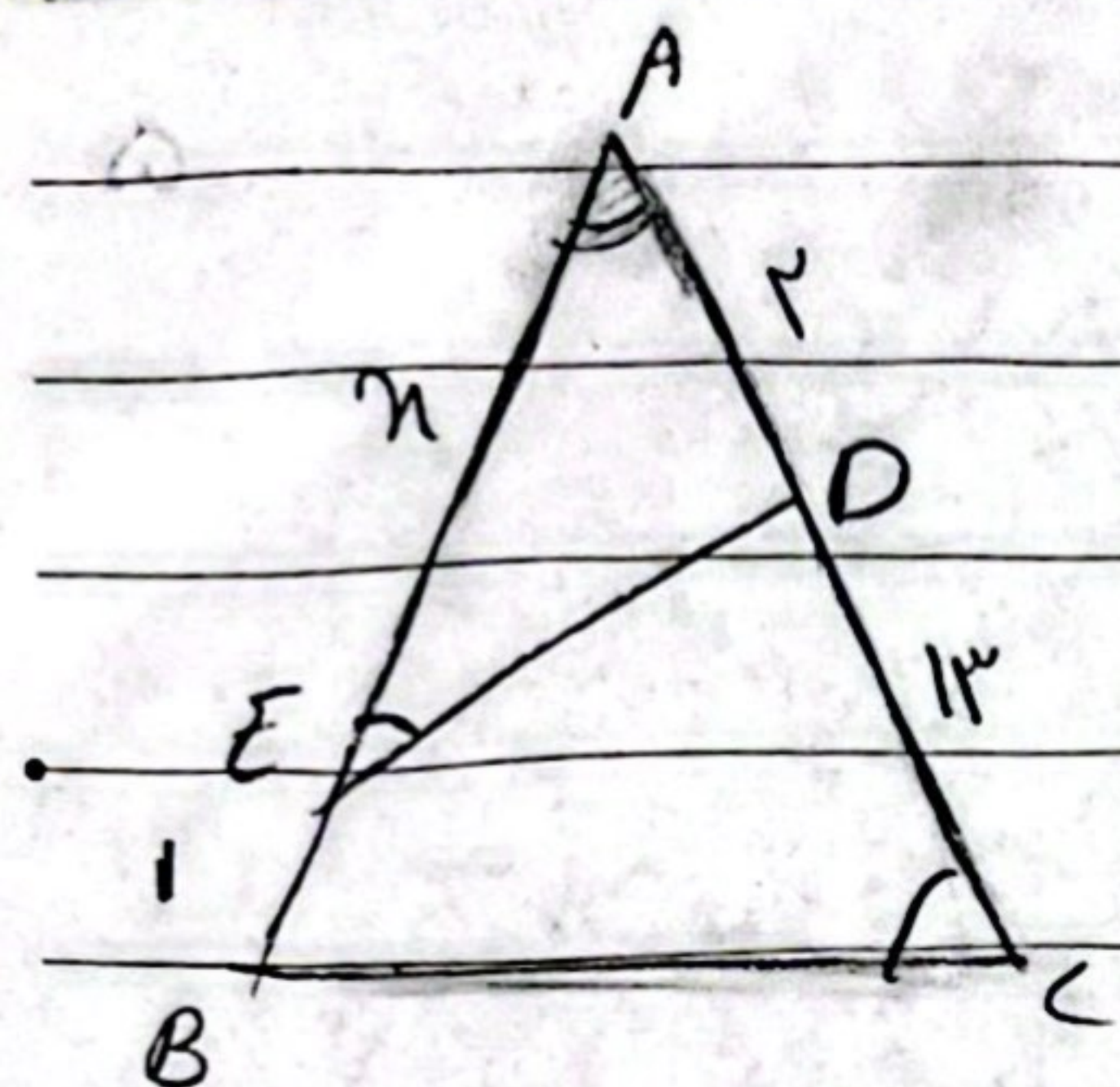
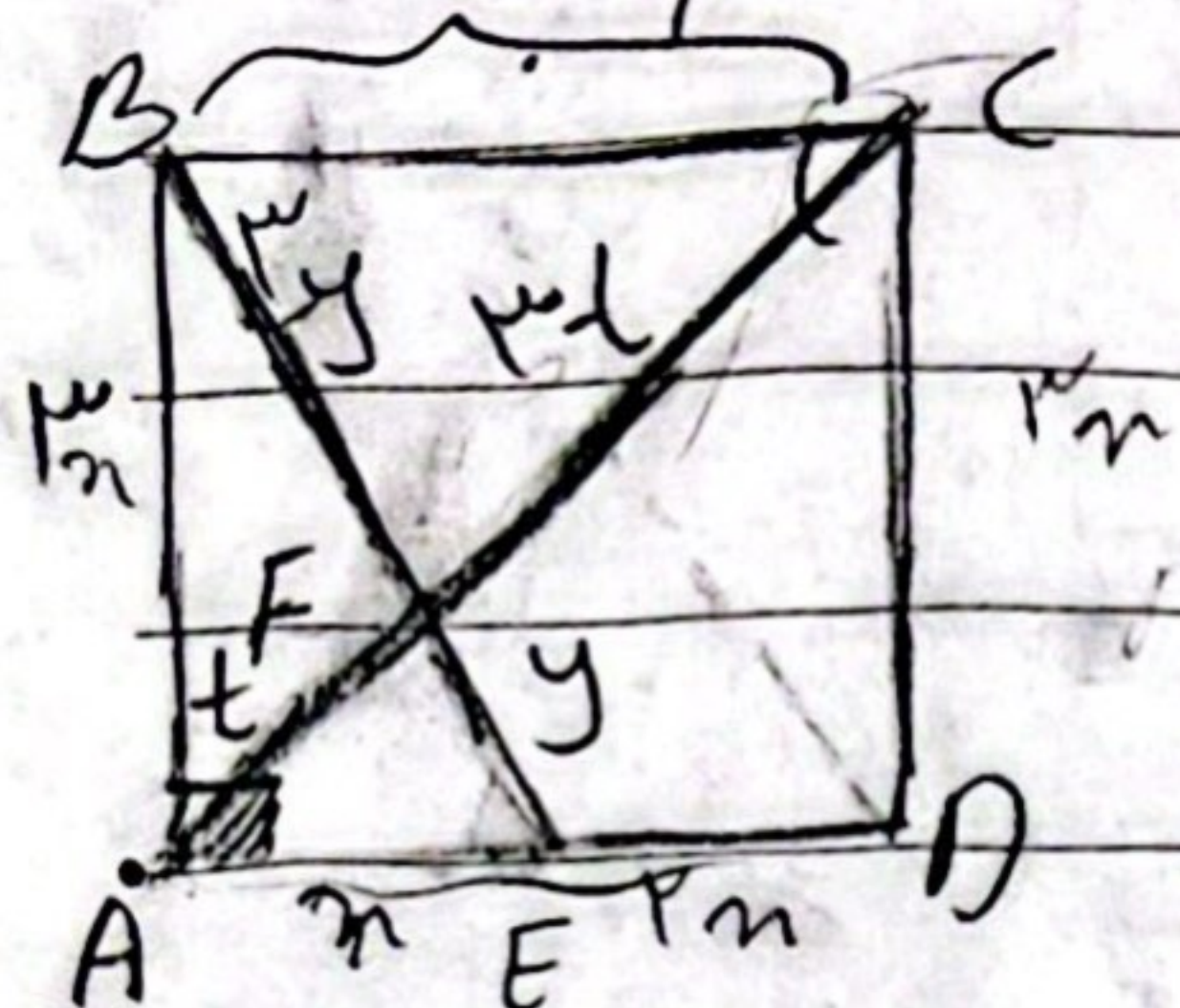
$$ED = PAE$$

① $AC^r = AB^r + CD^r \Rightarrow 92^r + 92^r = 182^r$

$$\Rightarrow AC = 3\sqrt{r}n \Rightarrow \Sigma t = 3\sqrt{r}n$$

$$\Rightarrow BE^r = AB^r + A\varepsilon^r$$

$$\Rightarrow 9n^2 + n^2 = 10n^2 \Rightarrow BE = \sqrt{10}n \Rightarrow y = \frac{\sqrt{10} \cdot n}{2}$$

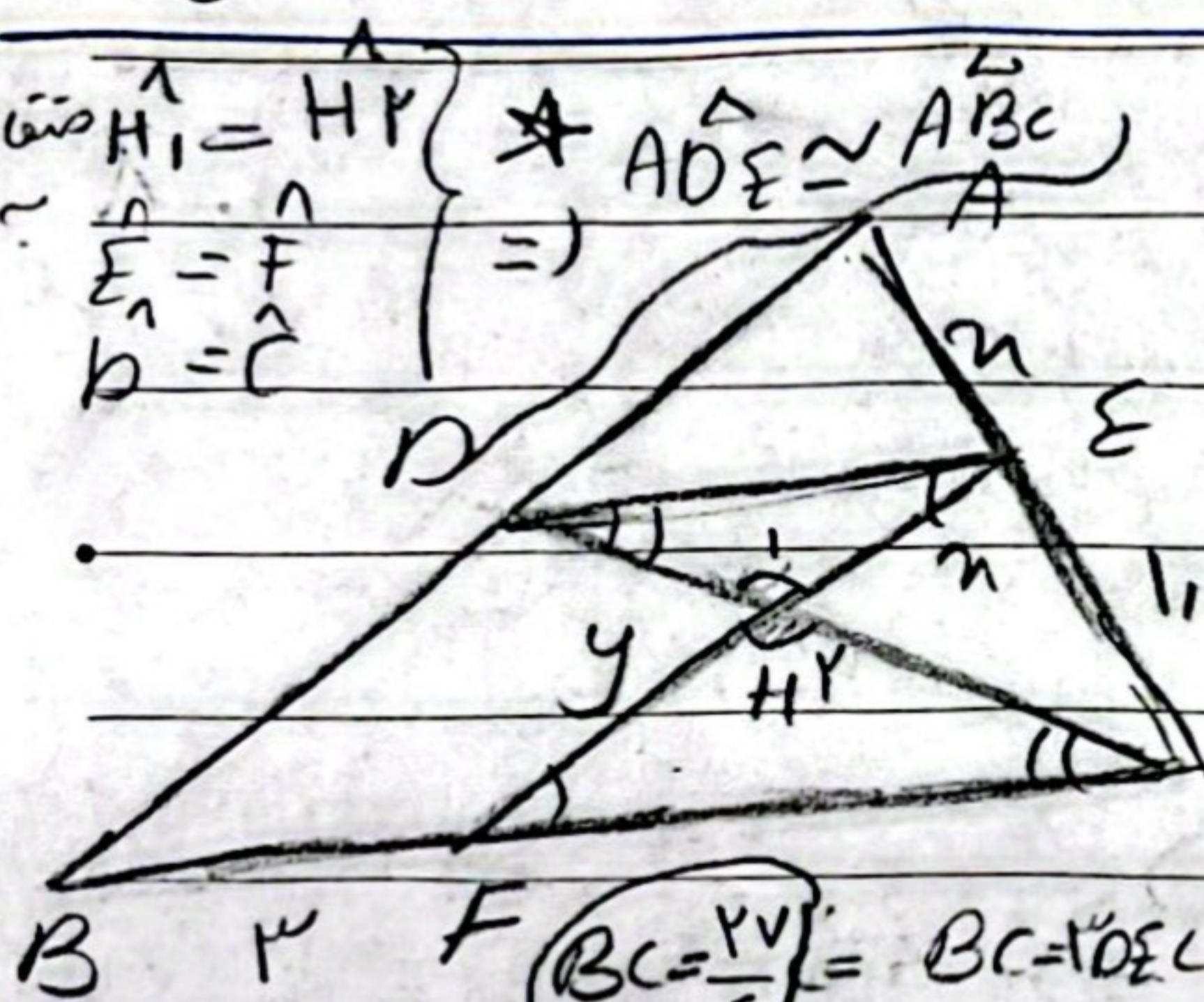


$$\left. \begin{array}{l} A \hat{=} B = A \hat{C} B \\ \hat{A} = \hat{A} \end{array} \right\} \Rightarrow A \overset{\Delta}{=} B \hat{=} A \overset{\Delta}{=} C \quad - M$$

$$\Rightarrow \frac{n}{10} = \frac{1}{n+1} \Rightarrow n^2 + n = 10$$

$$n(n+1) = 10 \Rightarrow n = 2 \leftarrow$$

$$n^2 + n - 2 = (n+2)(n-1) = 0 \Rightarrow n = -2 \vee n = 1 \checkmark$$



$DE \parallel BC$

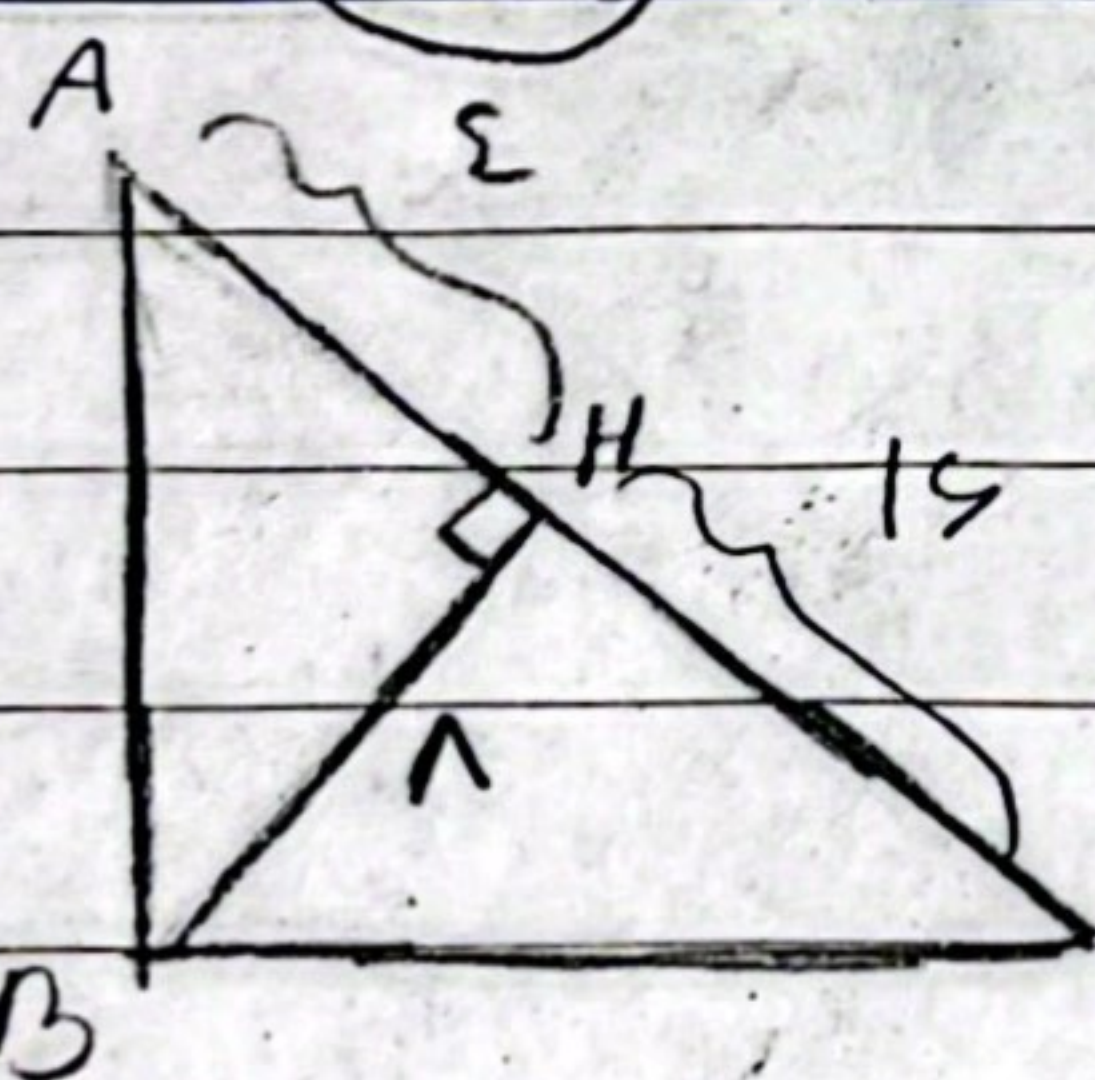
$$\nu_y = \omega n \quad BF = \nu - \nu$$

$$y = \frac{\omega}{\mu} z^*$$

$$1. r_y = \frac{q}{\omega} y \Rightarrow \frac{q}{\omega} \times \cancel{\omega} x = r_m$$

$$\Rightarrow DE \parallel BC \Rightarrow \frac{n}{pn} = \frac{DE}{BC} \Rightarrow \frac{DE}{BC} = \frac{1}{p}$$

$$\star \hookrightarrow \frac{DE}{BC - x} = \frac{x}{y} = \frac{x}{2} \Rightarrow \underbrace{BC - x}_{90\text{E}} = 2DE$$



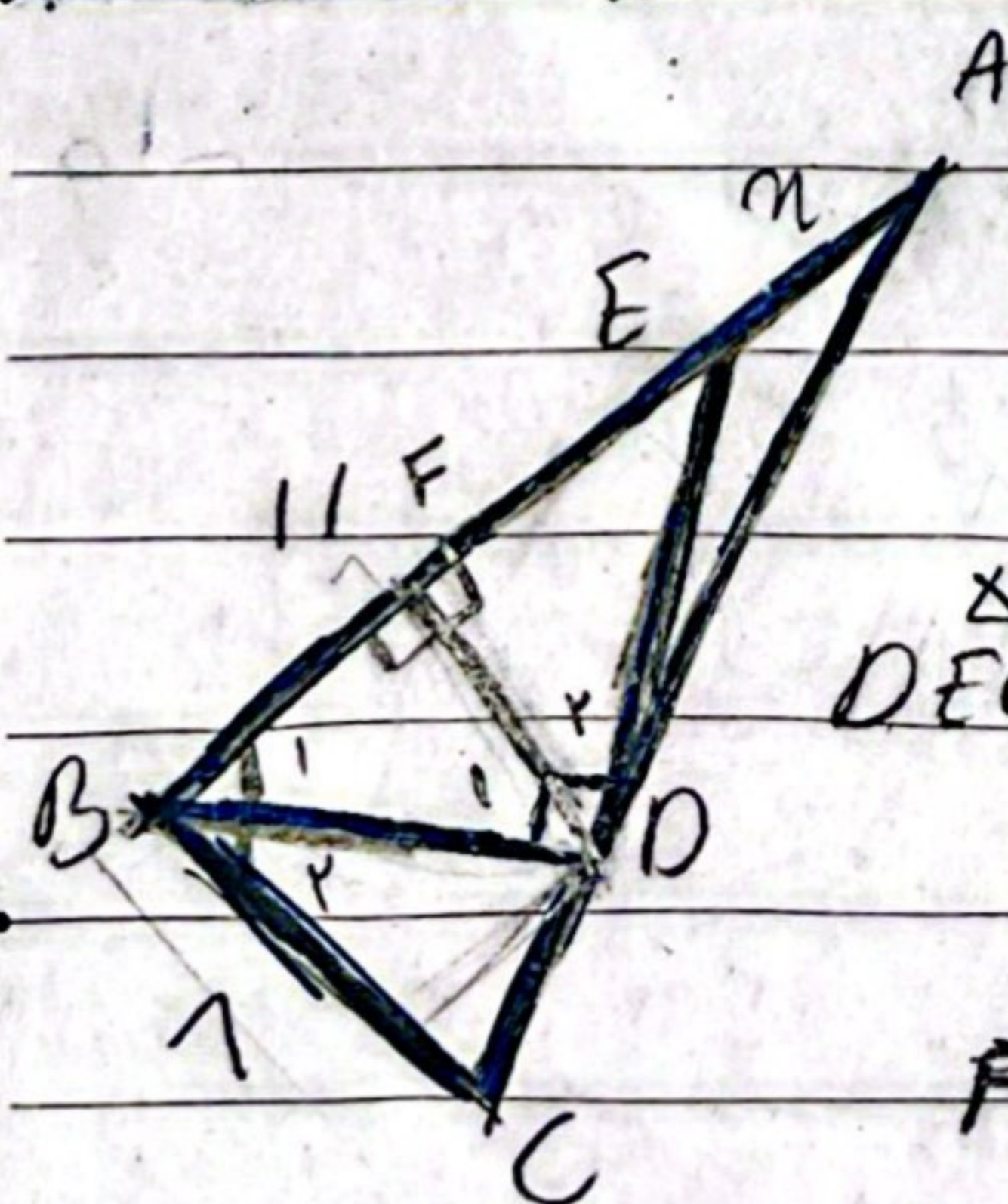
$$\text{میانگین} \Rightarrow AH \times HC = BH^2 \Rightarrow 2 \times 14 = 4\epsilon \Rightarrow BH = 1$$

$$AB^T = HB^T + A1^T \Rightarrow 14 + 4.5 = 19 \Rightarrow AB = \sqrt{19}$$

$$\Rightarrow AB = 5\sqrt{2}$$

$$BC' = BH' + AC' \Rightarrow \gamma \varepsilon + \gamma \omega \gamma \Rightarrow BC = \sqrt{\gamma^2 \gamma_0}$$

$$\Rightarrow BC = \Delta \sqrt{r}$$



$$\hat{\beta}_1 = \hat{\beta}_r$$

$$FD \parallel BC \Rightarrow \overset{\wedge}{D_1} = \overset{\wedge}{B_1} \Rightarrow \overset{\wedge}{D_1} = \overset{\wedge}{B_1} \Rightarrow \overset{\wedge}{FB} = \overset{\wedge}{FD}$$

$$F = 90 \Rightarrow B_1 = D_1 = 20 \Rightarrow B = 90$$

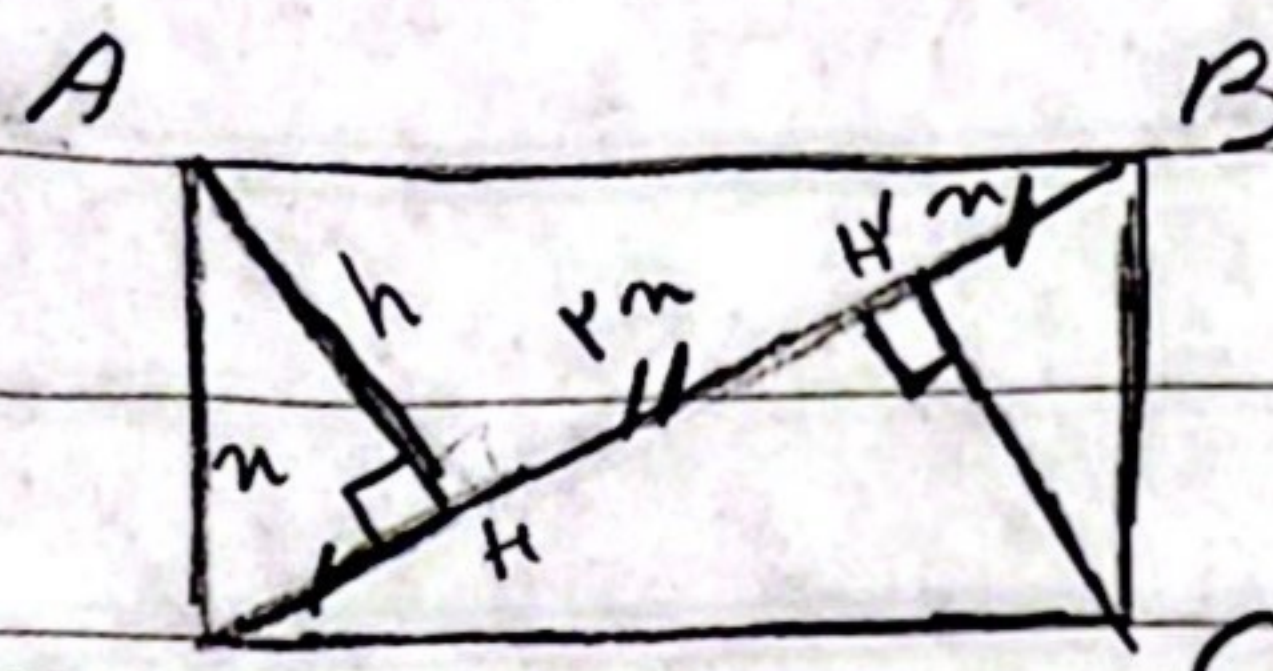
$\Delta DEB : \hat{D} = \hat{E} = 90^\circ, FB \times FE = FD^2 \Rightarrow FB = FE$

$$F_E + F_B = 11 \Rightarrow F_E = 11 = F_D$$

$$FD \parallel BC \Rightarrow \frac{n + \frac{11}{p}}{n + 11} = \frac{FD}{BC} = \frac{\frac{11}{p}}{11} = \frac{1}{p} \Rightarrow 15n + 11 = 11n + 11p$$

$$\omega_n = \mu$$

$$\Rightarrow n = \underline{m} = (9,4)$$



$$h^2 = DH \times HH' = n \times \sqrt{n} = \sqrt{n} \Rightarrow h = \sqrt{\sqrt{n}} = \sqrt[4]{n}$$

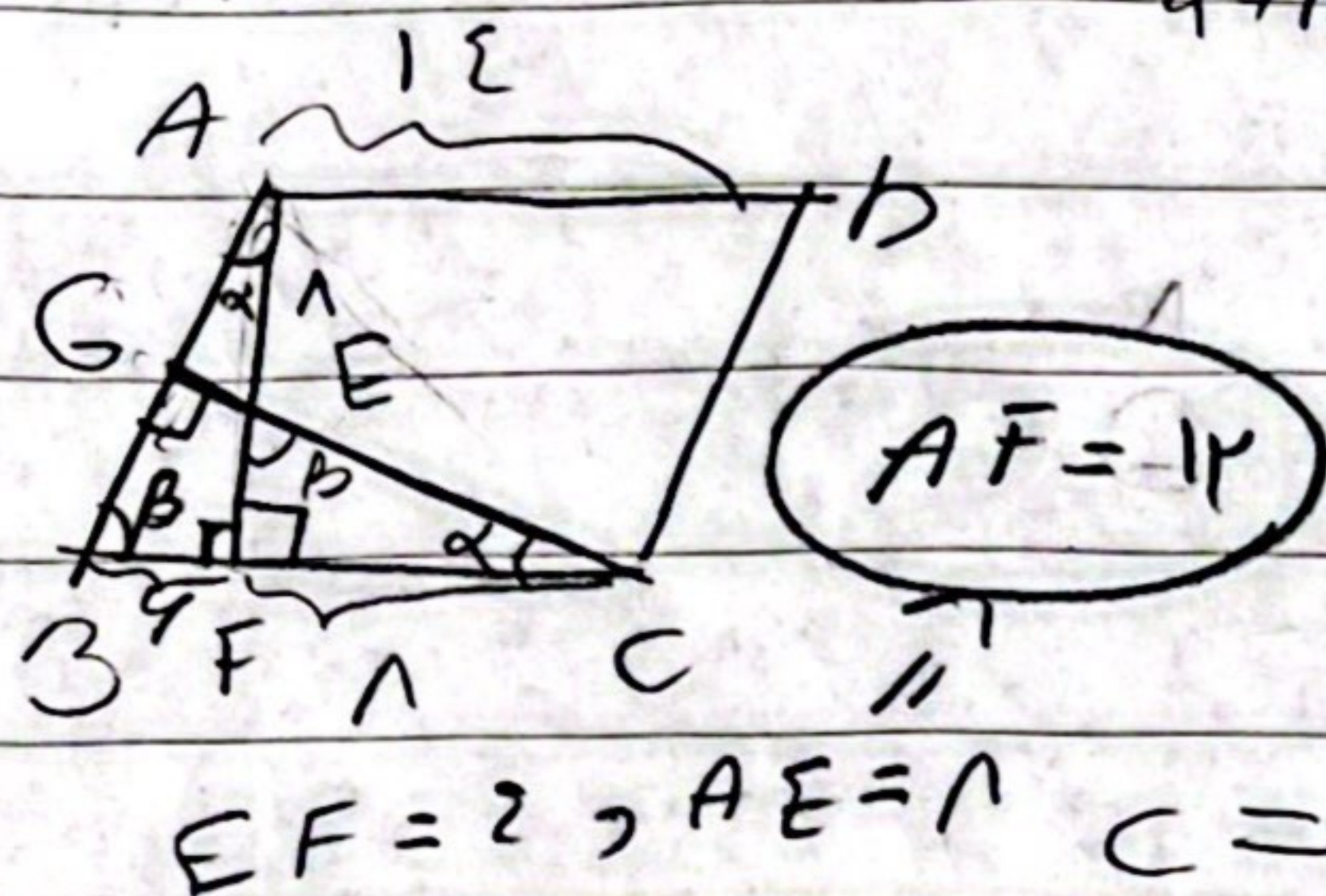
$$S_{\text{مستطیل}} = \frac{BD \times h \times \sqrt{n}}{\sqrt{n}} = \frac{2n \times \sqrt{n}}{\sqrt{n}} = 2\sqrt{n}$$

مستطیل

$$S_{\text{مستطیل}} = \frac{\sqrt{n} \times n}{\sqrt{n}} = \sqrt{n}$$

وفاً $\Delta DH \cong \Delta BH'$

$$\frac{S_{\text{مستطیل}}}{S_{\text{مستطیل}}} = \frac{2\sqrt{n}}{\sqrt{n}} = 2$$



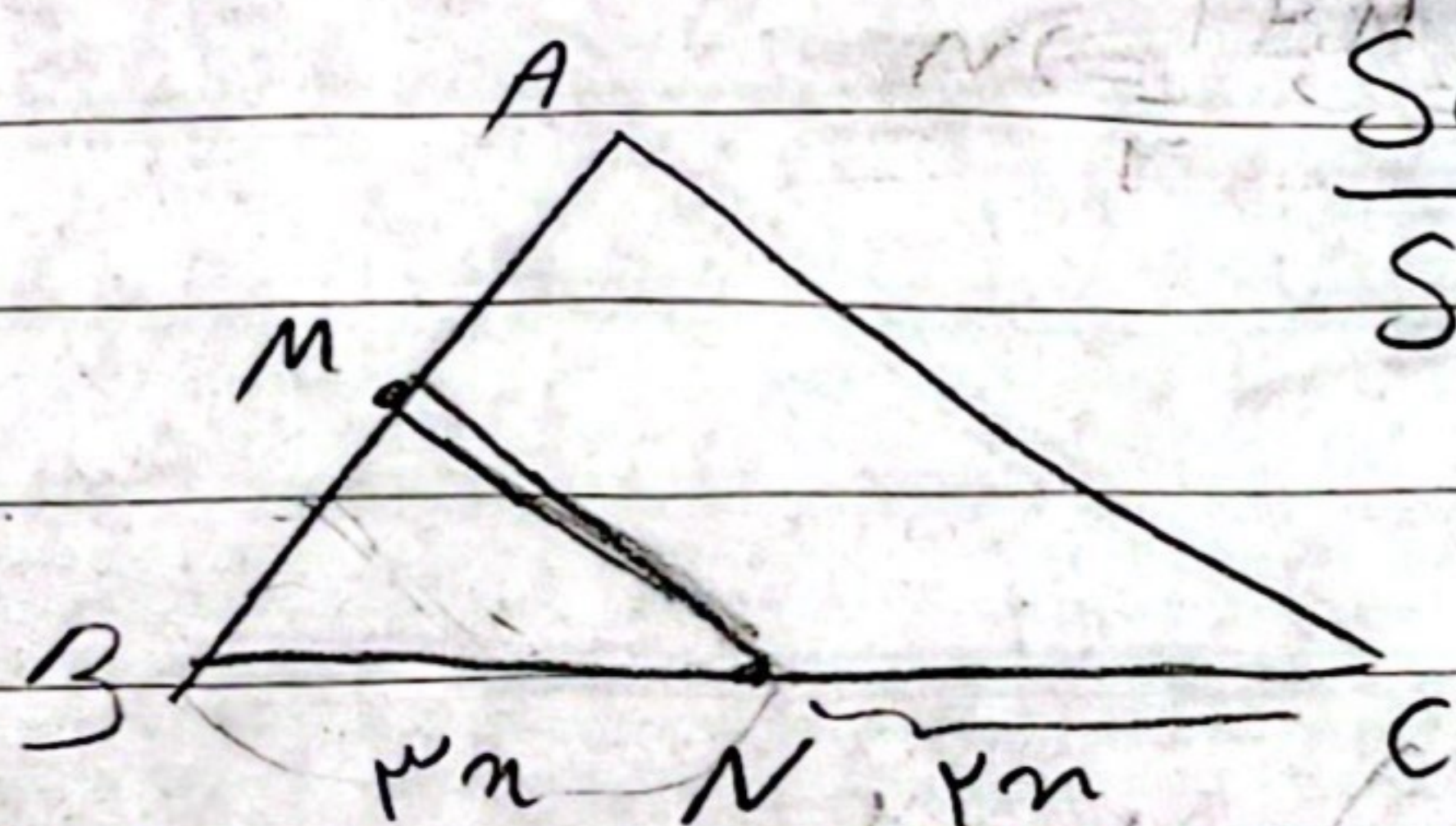
$$\alpha + \beta = 90^\circ \Rightarrow C = \alpha \Rightarrow E = \beta$$

$$\Rightarrow \angle F_1 = \angle F_2 = 90^\circ, B = E = \beta$$

$$\Rightarrow \Delta ABF \cong \Delta EFC \Rightarrow \frac{EF}{BF} = \frac{FC}{1 + EF}$$

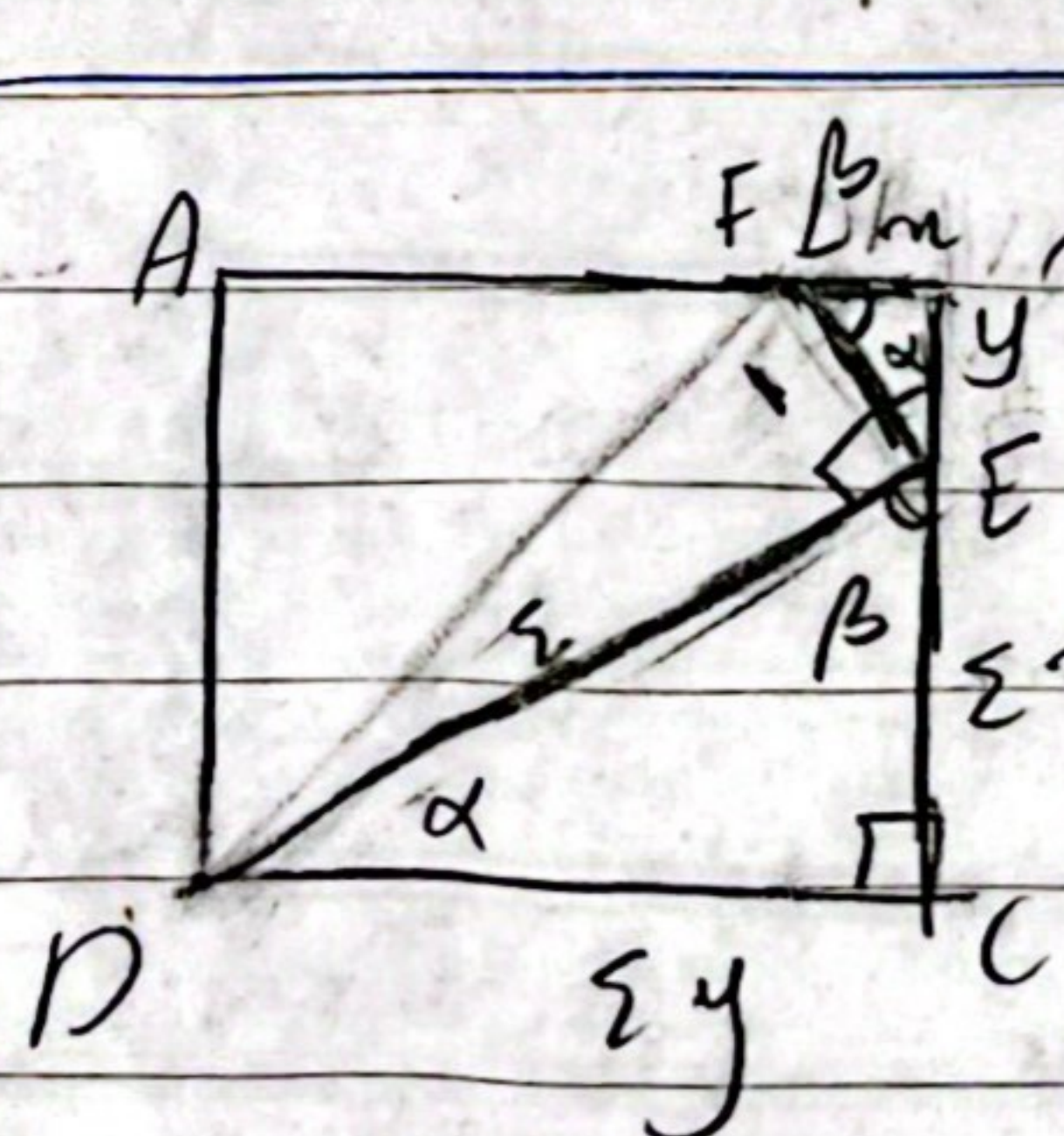
$$\Rightarrow \frac{EF}{1} = \frac{1}{1 + EF} \Rightarrow 1 = 1 + EF + EF^2$$

$$EF(1 + EF) = 1 \Rightarrow EF = 1$$



$$\frac{S_{BMN}}{S_{ABC}} = \frac{BM \times NB}{AB \times BC} = \frac{BM}{AB} \times \frac{1}{2} = \frac{1}{2}$$

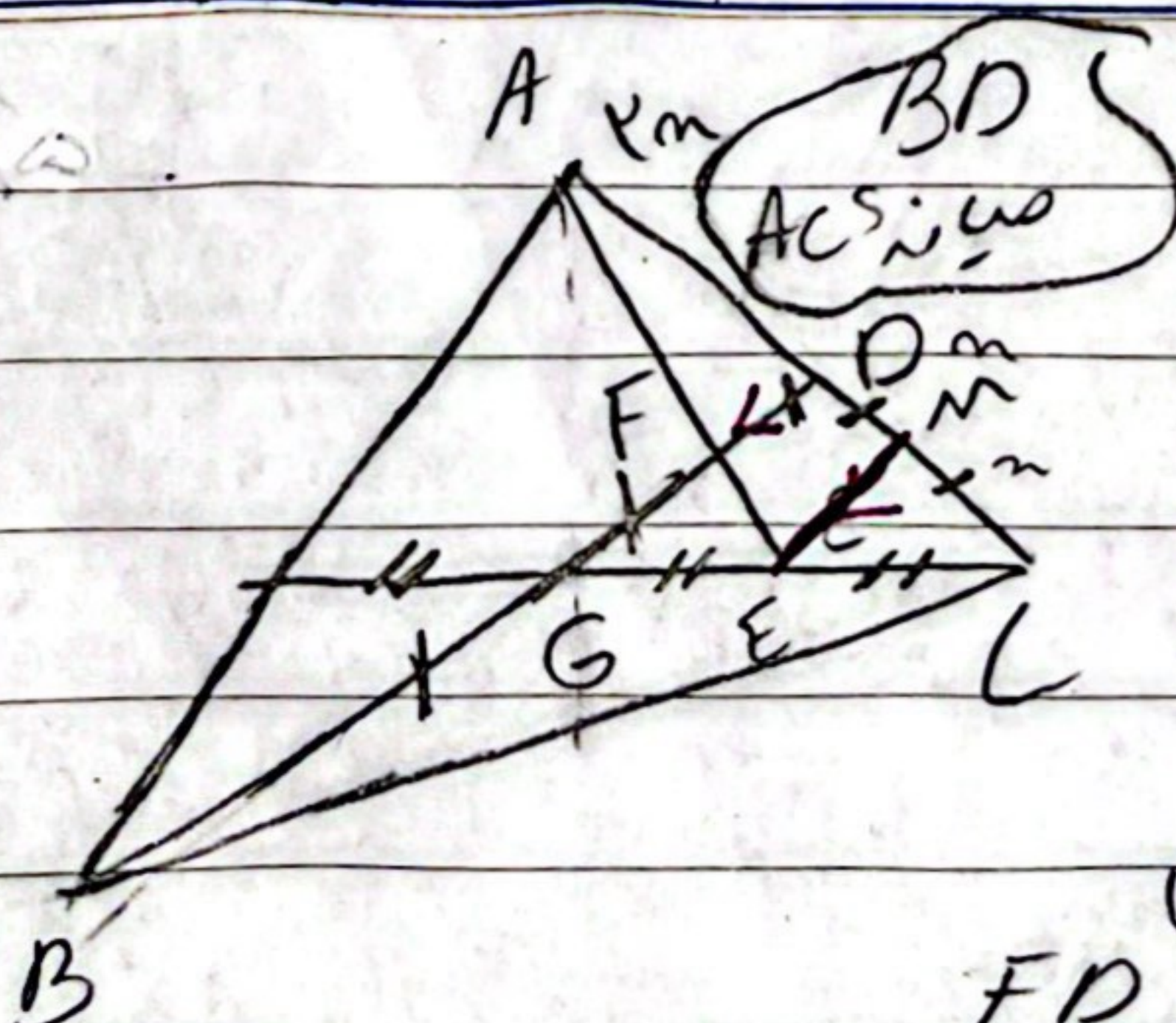
$$\Rightarrow \frac{BM}{AB} = \frac{1}{2} \Rightarrow \frac{BM}{AB - BM} = \frac{1}{1}$$



$$\alpha + \beta = 90^\circ \Rightarrow \Delta FBE \cong \Delta EDC \Rightarrow \frac{DE}{DC} = \frac{FE}{BE}$$

$$1 + y = 2y \Rightarrow 1 = y \Rightarrow \frac{1}{y} = \frac{1}{1}$$

$$1 + y^2 = \frac{1 + 2y}{1} = 1 + 2y$$



$$C = G = \text{مستطیل}$$

$$GE = EC$$

$$\frac{BD}{FD} = ?$$

$$\frac{EM}{BD} = \frac{1}{2}$$

$$\frac{FD}{EM} = \frac{1}{1} \Rightarrow \frac{FD}{BD} = \frac{1}{2} \times \frac{1}{1} = \frac{1}{2}$$

$$\Rightarrow \frac{BD}{FD} = 2$$