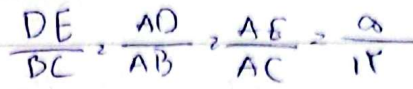
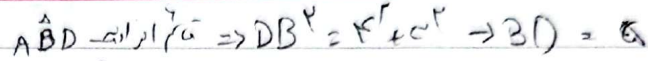


۶۶ کیس - ۲۲



$$EH = BH'$$

$$2 \frac{S_{BCF}}{S_{ADE}} \cdot \frac{\frac{1}{2} \times BC \times EH}{\frac{1}{2} \times DE \times BH} = \frac{BC}{DE} \cdot \frac{EH}{BH}$$



$$\left. \begin{matrix} B \hat{D}M \approx M \hat{D}E \end{matrix} \right\} \Rightarrow B \hat{D}M \cong M \hat{D}E \rightarrow \mathbb{B} D E : A = D B$$

$$\hat{M}_1, \hat{M}_2 = 90$$

$$\Rightarrow E C_2 \uparrow$$

$$\begin{array}{l} M \rightarrow BE \downarrow \\ N \rightarrow BC \downarrow \end{array} \left. \begin{array}{l} \Rightarrow MN \parallel EC \end{array} \right\} \Rightarrow \frac{BM}{BE} = \frac{MN}{EC} \rightarrow \frac{1}{2} = \frac{MN}{K} \Rightarrow MN = \frac{K}{2}$$

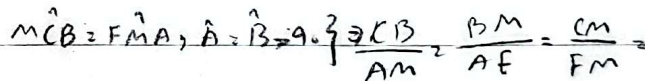


$$\hat{E} = \hat{A}_I + \hat{B}_I = \hat{A}_I + \hat{A}_I \hat{A} = \hat{A}$$

$$\hat{D}_1 \hat{G}_1 + \hat{A}_1 = \hat{C}_1 + \hat{C}_2 + \hat{C}_3$$

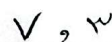
$$\Rightarrow \frac{DE}{AC} = \frac{FE}{AB} = \frac{DF}{BC}$$

$$\frac{DE}{AC} = \frac{AD}{AB} = \frac{AE}{AC} \Rightarrow AB = 9,7$$

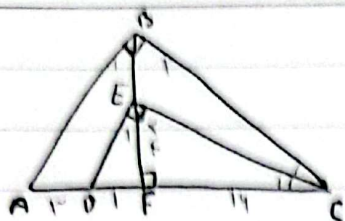


$$\Rightarrow \frac{4}{r} = \frac{v}{Af} = \frac{c\sqrt{\omega}}{f_m} \Rightarrow Af = 2, \omega, f_m = \frac{c\sqrt{\omega}}{r}$$

$$\frac{4}{y}$$



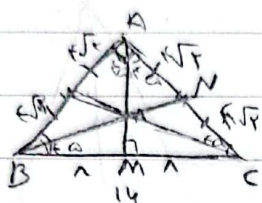
4-



$$\begin{aligned} \hat{C} &= 90^\circ \\ \hat{C}_1 &= 90^\circ - \hat{C}_r \quad \left\{ \begin{array}{l} \hat{C}_1 = \hat{E}_1 \\ \hat{C}_r = 90^\circ - \hat{E}_r \end{array} \right. \Rightarrow \hat{C}_1 = \hat{E}_1 \\ \hat{C} &= 90^\circ - \hat{B}_r \quad \left\{ \begin{array}{l} \hat{C}_1 = 90^\circ - \hat{B}_r \\ \hat{B}_1 = 90^\circ - \hat{B}_r \end{array} \right. \Rightarrow \frac{CF}{BF} = \frac{BC}{AB} = \frac{BF}{AF} \\ \frac{14}{BF} &= \frac{BC}{AB} = \frac{BF}{AF} \end{aligned}$$

$$\Rightarrow BF^2 = 4 \times 14 \Rightarrow BF = 2\sqrt{14} \Rightarrow BC = \sqrt{14^2 + 14^2} = \sqrt{196} = 14$$

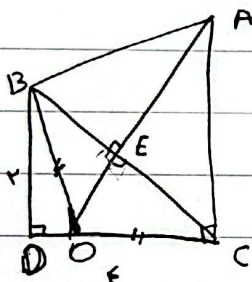
V-



$$AC = AB = 10\sqrt{2}$$

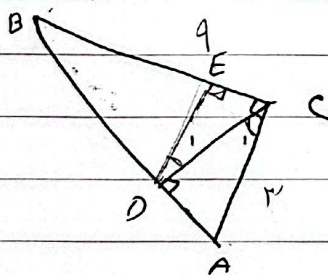
$$BN^2 = AN^2 + AB^2 = 4^2 + 10^2 = 116 \Rightarrow BN = 2\sqrt{29}$$

VI-



$$\frac{OC}{AC} = \frac{1}{2}$$

7-



$$ED \parallel AC, DC \parallel AB \Rightarrow \hat{D}_1 = \hat{C}_1, \hat{D}_r = \hat{E}_r = 90^\circ$$

$$\Rightarrow \frac{ED}{DC} = \frac{EC}{AD} = \frac{DC}{AC}$$

$$\frac{ED}{DC} = \frac{EC}{AD} = \frac{DC}{AC}$$

$$\frac{EC}{ED} = \frac{DE}{BE} = \frac{DC}{BD}$$

$$\frac{DE}{AC} = \frac{BE}{BC} = \frac{BD}{BA} \Rightarrow \frac{DE}{x} = \frac{BE}{9} = \frac{BD}{9} \Rightarrow DE = BE$$