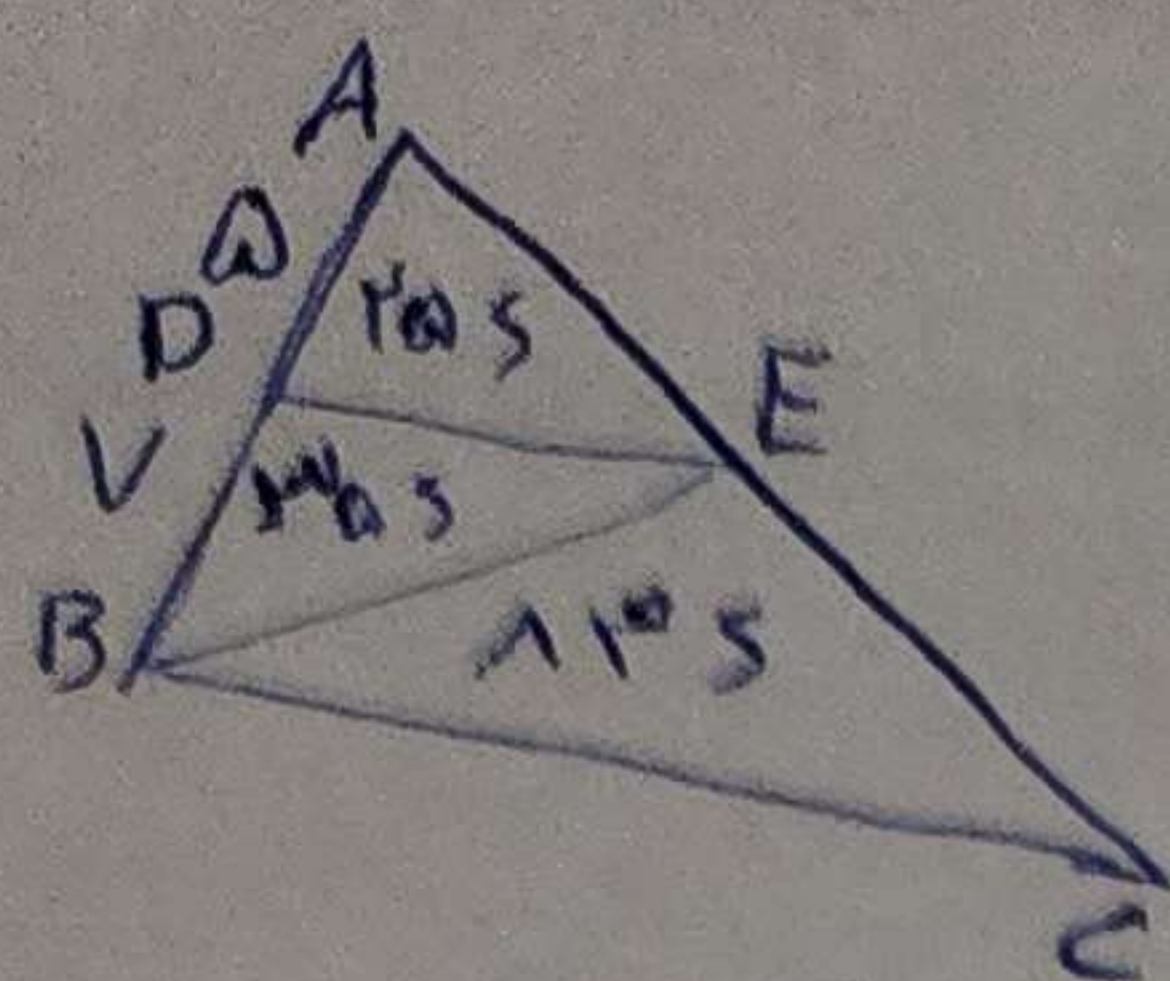


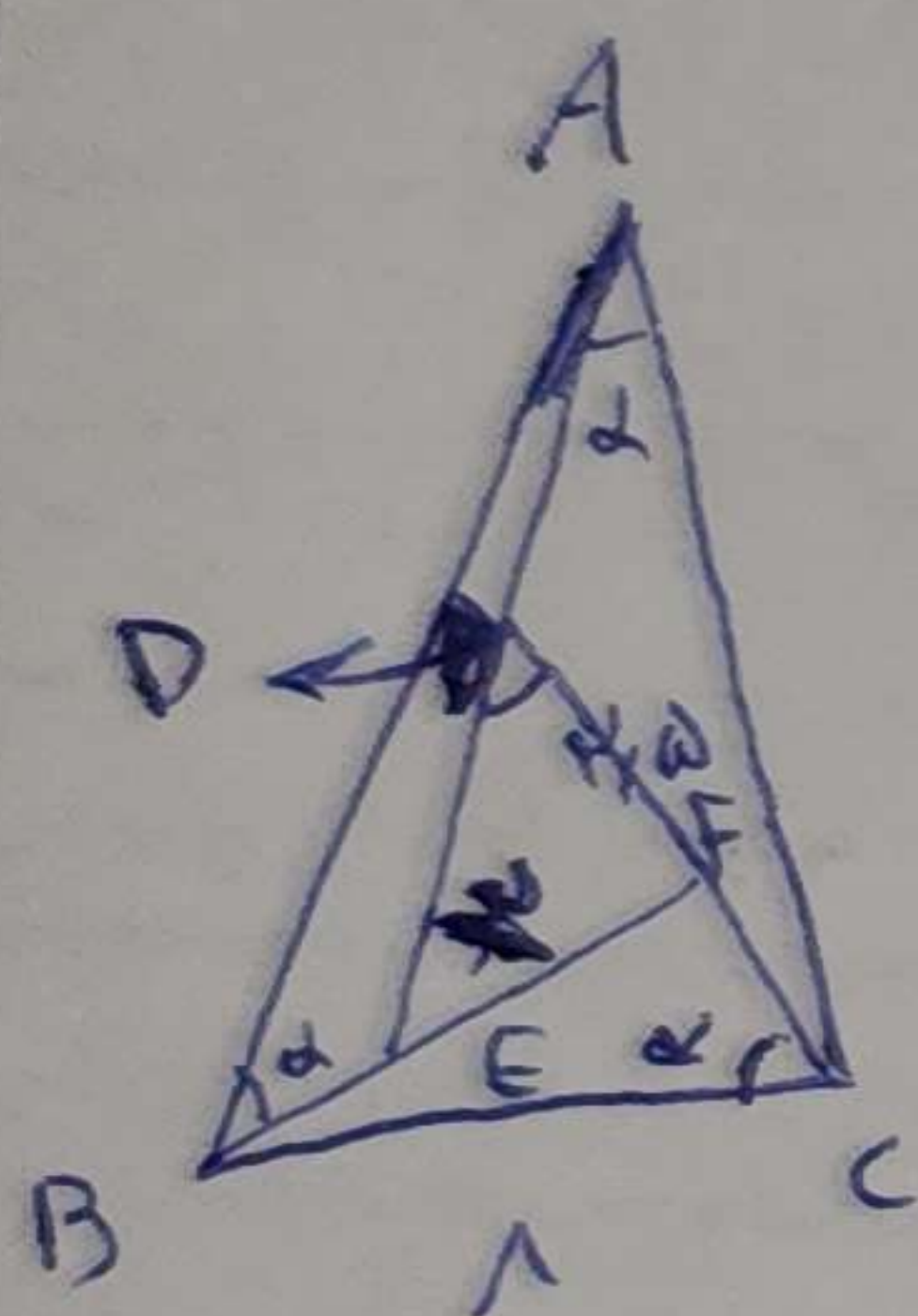


ارتفاع برابر $\Rightarrow \frac{S_{BCE}}{S_{BDE}} = \frac{BC}{DE} = \frac{AB}{AD} = \frac{12}{3} = 4$ ✓

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$BD \Rightarrow \sqrt{3^2 + 4^2} = 5$
 $AB \parallel DM$
 $AD \parallel BM$
 $\Rightarrow \hat{M} = \hat{A} = 90^\circ$
 $ABD = BDM$
 $AB = DM = 4$
 $AD = BM = 3$
 $BDC = 12$
 $BDM = MDC = 12$
 $BDM = MDC$
 $BDC \sim DMF$
 $DF = 4$
 $FC = 4$
 $EF = 4$
 $EN \parallel BD \Rightarrow \frac{CN}{CB} = \frac{CE}{CD} = \frac{EN}{BD} \Rightarrow CE = 4$
 $EN = 4$
 $EM = 4$
 $MN = EN - EM = 4$ ✓

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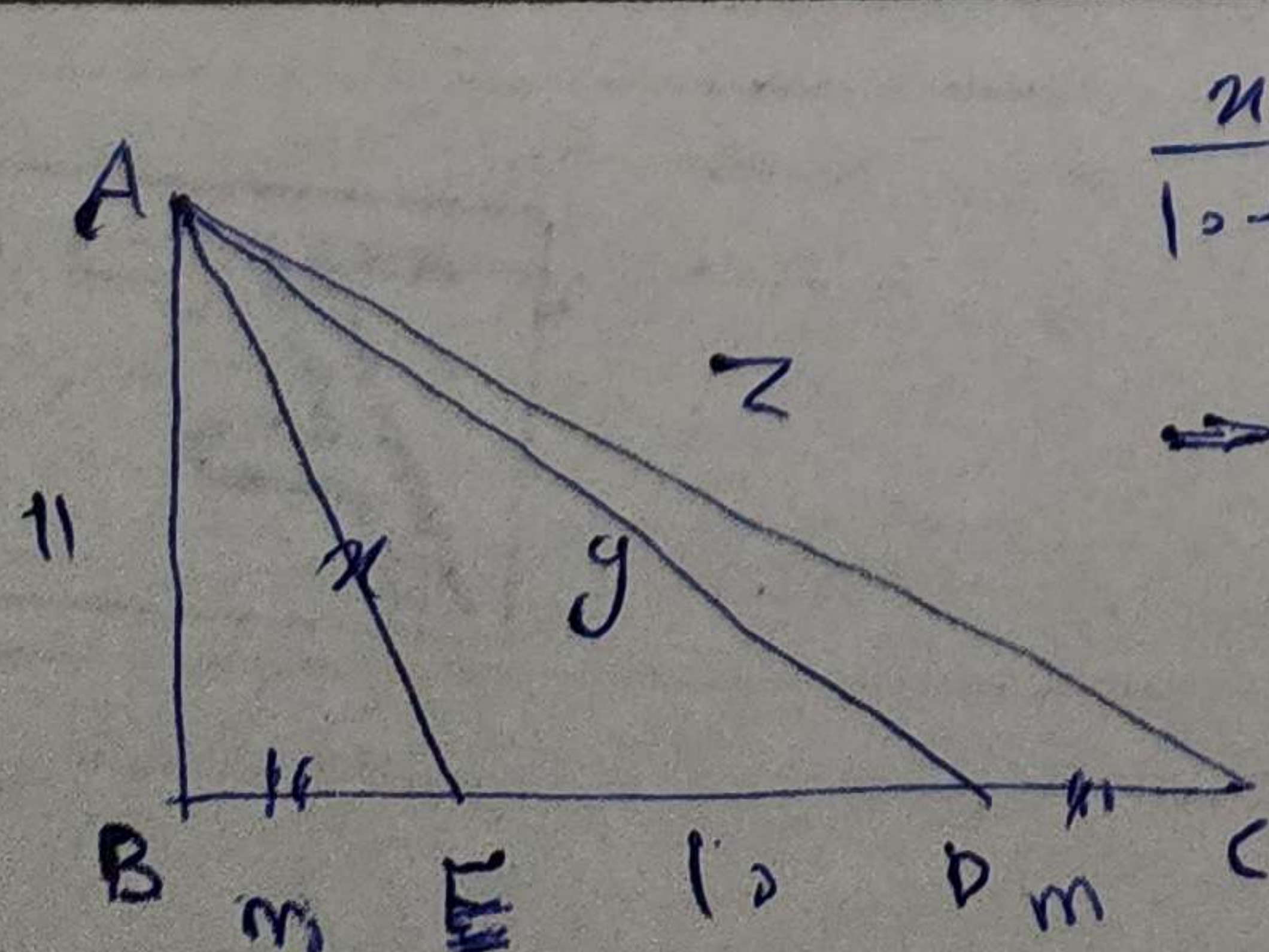
$\frac{12}{1} = \frac{3}{AB} \Rightarrow \frac{12}{1} = 9$ ✓

$ABC \sim DEF$
 $A = D$
 $C = F$
 $B = E$

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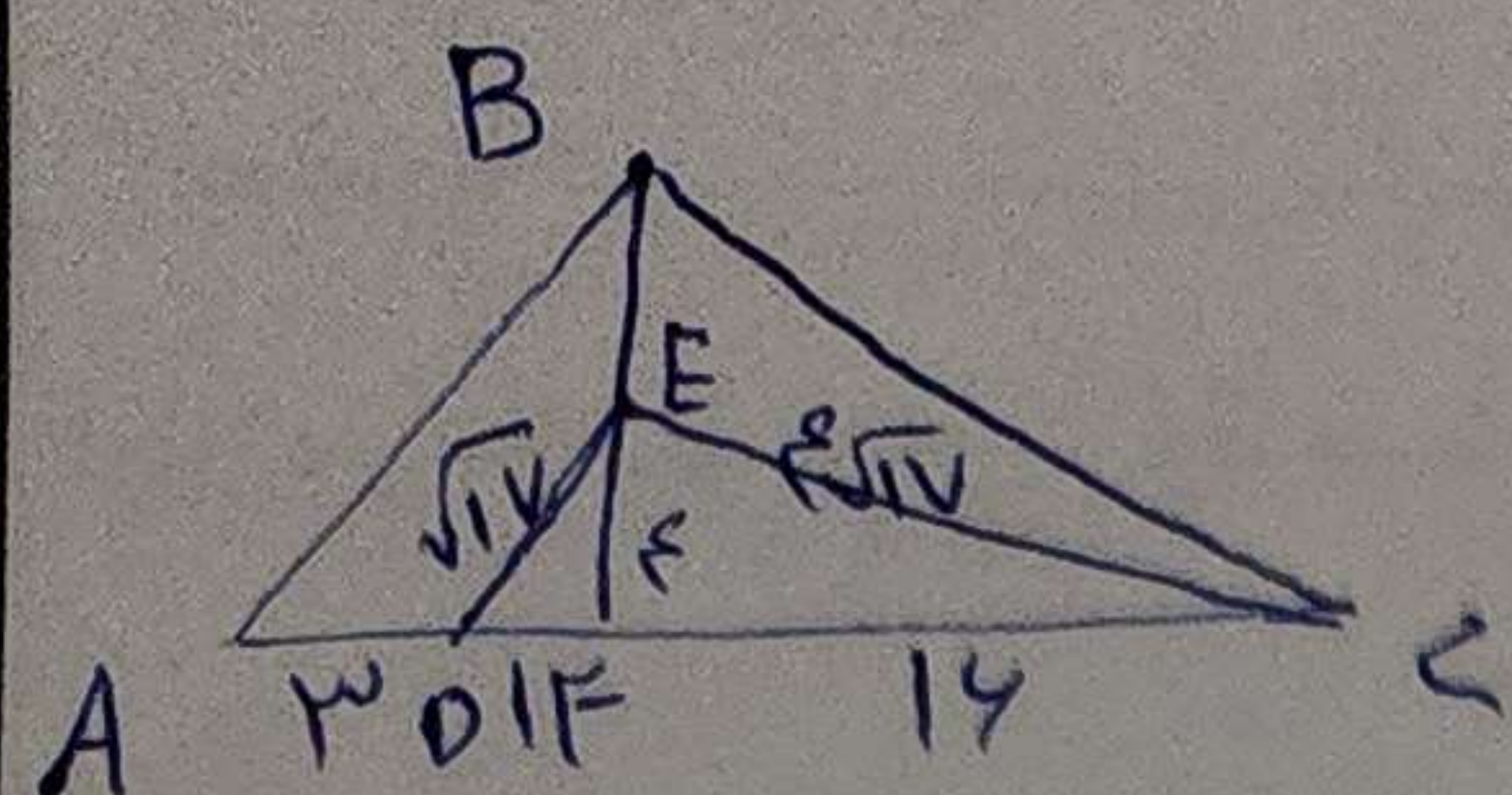
$BMC \sim AMF \Rightarrow AF = \frac{3}{4}$
 $BME \sim CDM \Rightarrow ME = \frac{1}{4} CE$
 $MC = \sqrt{9^2 + 3^2} = 3\sqrt{10}$
 $ME = \frac{1}{4} CE \Rightarrow \begin{cases} ME = \sqrt{10} \\ CE = 4\sqrt{10} \end{cases}$
 $MF = \sqrt{(\frac{3}{4})^2 + 3^2} = \frac{3}{4}\sqrt{10} \Rightarrow S = \frac{1}{2} (\frac{3}{4}\sqrt{10})(\sqrt{10}) = \frac{15}{4}$ ✓

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$\frac{x}{10+m} = \frac{y}{2} = \frac{10}{x} \Rightarrow x^2 = 10(10+m) \Rightarrow 10 + m^2 = 100 + 10m$
 $\Rightarrow m^2 - 10m + 10 = 0 \Rightarrow (m-5)(m-2) = 0 \Rightarrow m = 5$ ✓

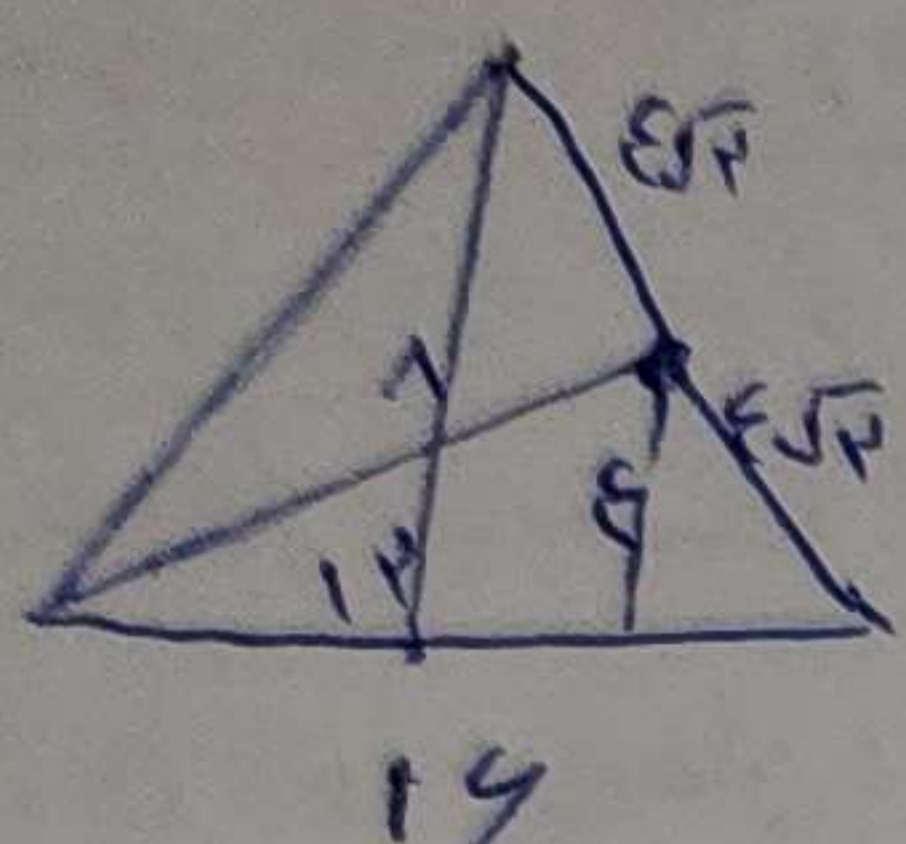
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$$B_c^p = 19 \times P_0 = \mu \times \omega \xrightarrow{9} 1\sqrt{\omega}$$

$$EF' = DF \times FC = FC = 19$$

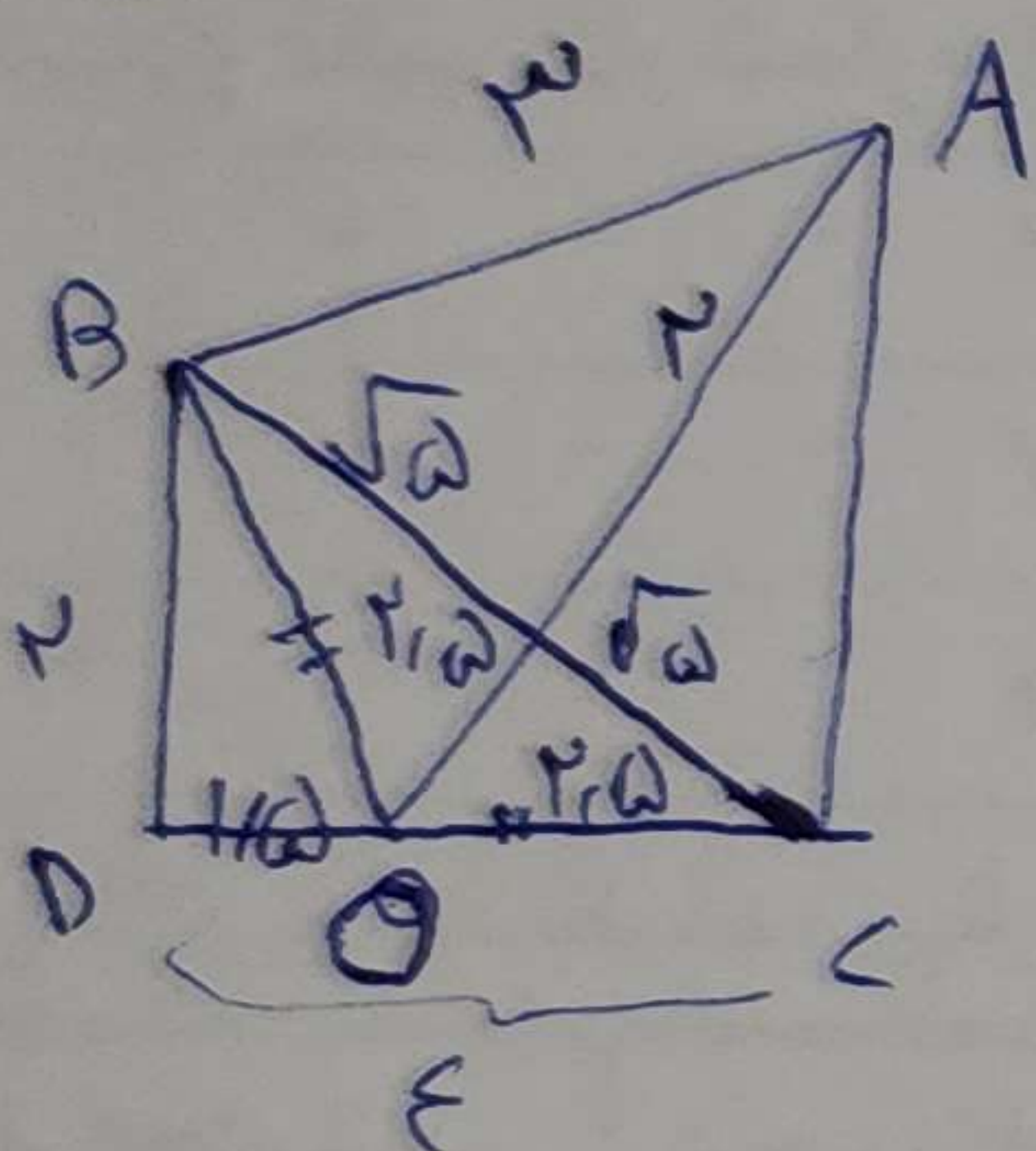
3



$$\frac{1 \times 19}{2} = 9.5 \rightarrow \sqrt{19 + 19} = \sqrt{38} = \sqrt{2} \checkmark$$

$$AH \parallel MN \Rightarrow \frac{MN}{AH} = \frac{MC}{AC} = \frac{NC}{CA} \Rightarrow \begin{aligned} MN &= F \\ NC &= F \\ BN &= 1P \end{aligned}$$

بخشید بر خط خودی



$$\left. \begin{array}{l} B = C \\ E_1 = E_2 \end{array} \right\} \begin{array}{l} O_1 = O_2 \\ BE = CE \end{array}$$

$$B = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{pmatrix} \quad \text{Bo}^T \text{ of } -OA \Rightarrow \sqrt{1.25} n = 0.5 \Rightarrow n^T = 1.25 \rightarrow n = \sqrt{1.25}$$

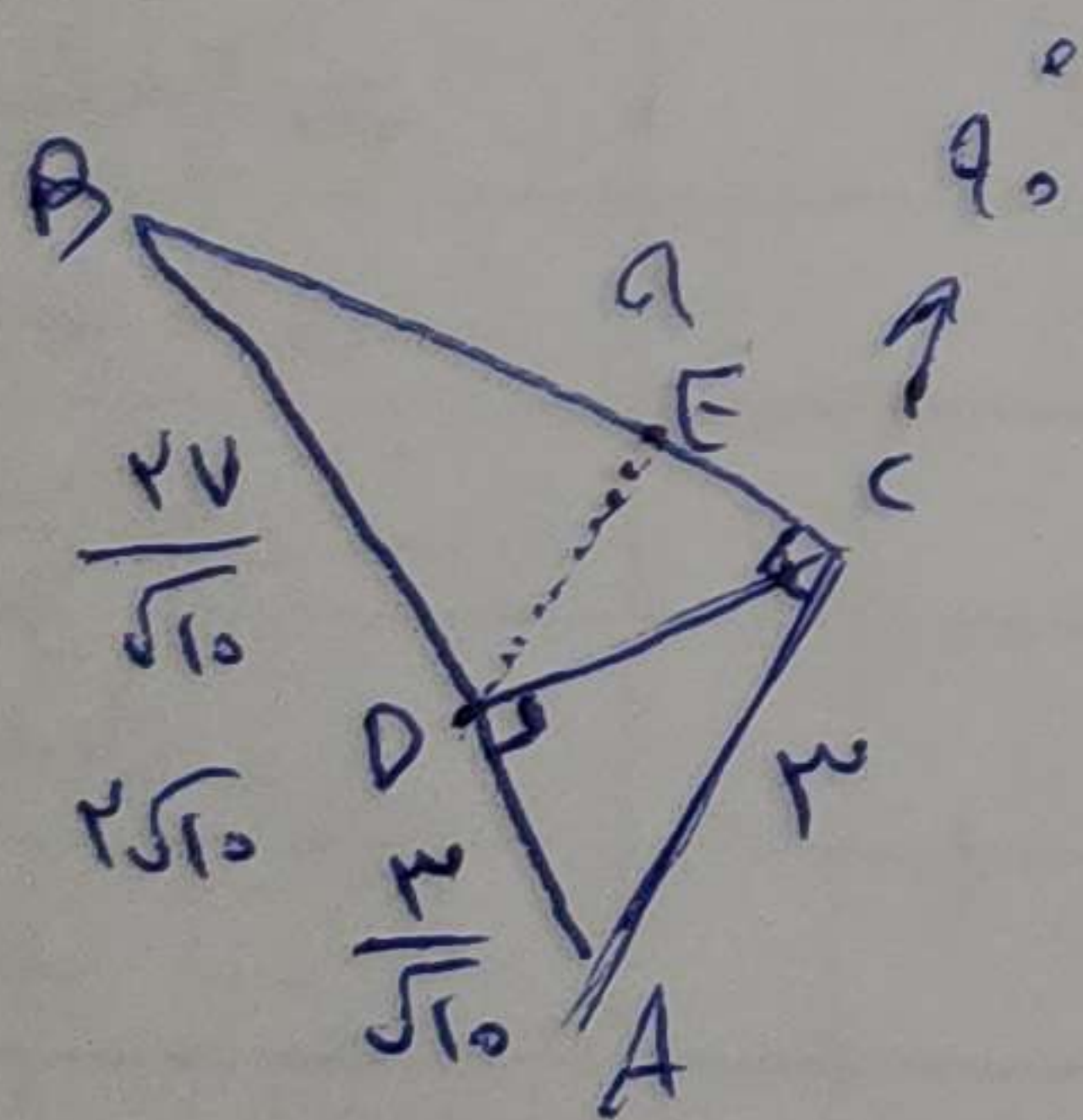
$$B_C = B_E + C_F = Y B_E \Rightarrow B_E = F_C (\sqrt{w})$$

$$19 + a^p - \Delta a = a^p + \varepsilon$$

$$\wedge a = 12 \rightarrow a = 1, 2$$

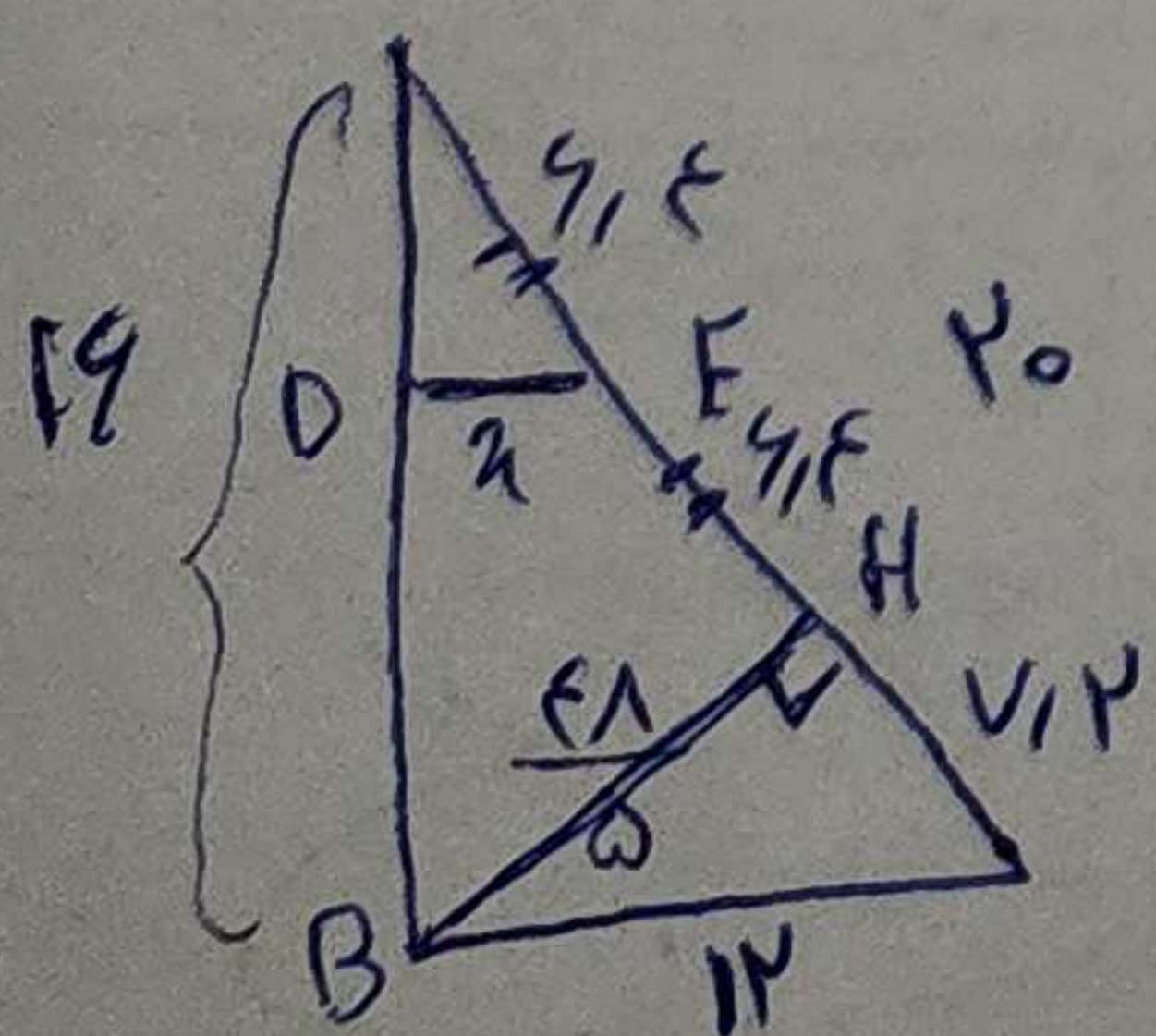
$$B_c = \sqrt{\epsilon \mu} = \mu \sqrt{\omega}$$

$$S_{ABE} = \frac{\sqrt{\omega} \times \sqrt{r_0}}{r} = \omega$$



$$\Delta I_0 = n \times \sqrt{I_0}$$

$$\frac{pV}{p_0} = \frac{n}{q} \Rightarrow n = 1,1 \checkmark$$



$$\frac{x}{12} = \frac{414}{20} \leftarrow \frac{x}{12} = \frac{AE}{AC} \leftarrow ADE \sim ABC \begin{cases} A = 30^\circ \\ E = 90^\circ \\ B = D = 90^\circ \end{cases}$$

1.