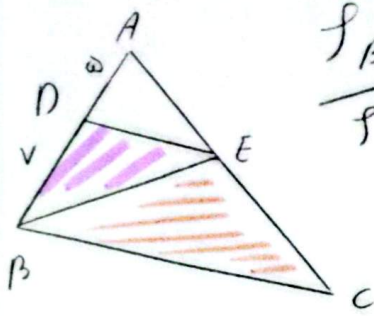


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نیسا فرینت مرارقم ب

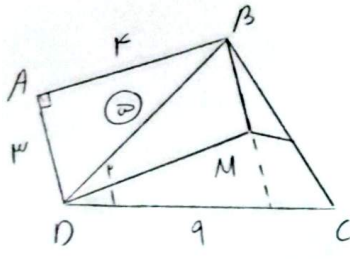


$\frac{S_{BCE}}{S_{BDE}} = ?$ $BC \parallel DE \Rightarrow \triangle ADE \sim \triangle ABC$

$\frac{BC}{DE} = \frac{AB}{AD} \Rightarrow \frac{12}{5} \rightsquigarrow \frac{BC}{DE} = 1,2$

$\Rightarrow \frac{S_{BCE}}{S_{BDE}} = 1,2$

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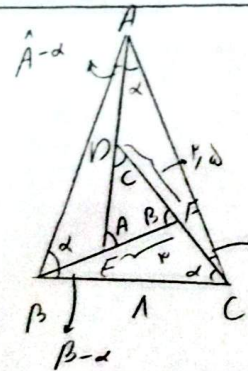


$\hat{D}_1 = \hat{D}_2 \Rightarrow \triangle MDE \sim \triangle MCB$

$\Rightarrow BM = ME = 4 \Rightarrow DE = 5 \Rightarrow EC = 4$

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است $ME \cdot BFC$ و است $ME = 17$ است ME و FC است $ME = 17$

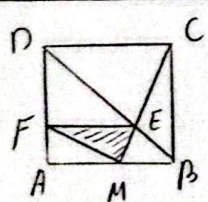


$AB = ?$

$\angle EFD = \hat{B} - \alpha + \alpha = \hat{B}$
 $\angle DEF = \hat{A} - \alpha + \alpha = \hat{A}$
 $\angle EDF = \hat{C} - \alpha + \alpha = \hat{C}$

$\frac{1,2}{1} = \frac{4}{2} \Rightarrow 2 = 9,6$

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$\triangle ABC \sim \triangle ADE \rightsquigarrow \frac{AF}{4} = \frac{12}{4} \Rightarrow AF = \frac{12}{4}$

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$MF = \sqrt{9 + \frac{9}{4}} = \frac{3\sqrt{5}}{2}$ $\frac{12}{4} = \frac{ME}{CE} \Rightarrow CE = 2ME$

$\triangle MBE \sim \triangle ECD$

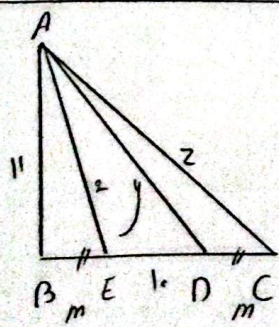
$ME + EC = 3\sqrt{5}$

$S_{MEF} = ME \cdot \frac{FM}{4} = \frac{3\sqrt{5}}{2} \times \frac{\sqrt{5}}{2}$

$MC = \sqrt{16 + 9} = 5$

$ME + 2ME = 3\sqrt{5} \rightsquigarrow ME = \sqrt{5}$

۵) است $\triangle AED$ و $\triangle ACE$ است $\triangle AED$ و $\triangle ACE$ است $\triangle AED$ و $\triangle ACE$ است



$\frac{2}{1+m} = \frac{y}{2} = \frac{1}{2} \Rightarrow 2^2 = 1 \cdot (1+m)$

۵

$11 + m^2 = 10 + 10m \Rightarrow m^2 - 10m + 11 = 0 \Rightarrow (m-5)(m-2) = 0$

$\begin{cases} m = 2 \\ m = 5 \end{cases}$

است $1, 2, 3$ است $1, 2, 3$ است

