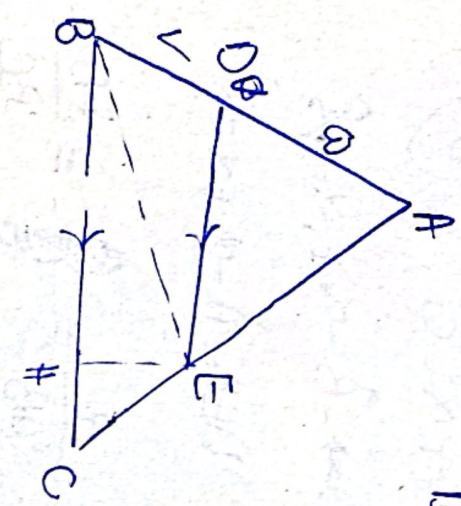


①



DE // BC

~~AD/AB = AE/AC~~

11

دو مثلث ایست-طایفه مساوی

~~same~~

$$\frac{S_{BCE}}{S_{BDE}} = \frac{\frac{1}{2} \times \frac{11}{11} h \times BC}{\frac{1}{2} \times \frac{a}{11} BC \times \frac{11}{11} h} = \boxed{\frac{11}{a}}$$

1

$$\frac{AB}{AB} = \frac{DE}{BC} \Rightarrow DE = \frac{a}{11} BC$$

$$\frac{AE}{AC} = \frac{a}{11} \Rightarrow \frac{AE}{AC - AE} = \frac{a}{11 - a}$$

$$\frac{CE}{CA} = \frac{EH}{AB}$$

BM // AD

AD = BM = 11

②

AB' + AD' = DB'

$$4 + 14 = 18 \quad DB = 8$$

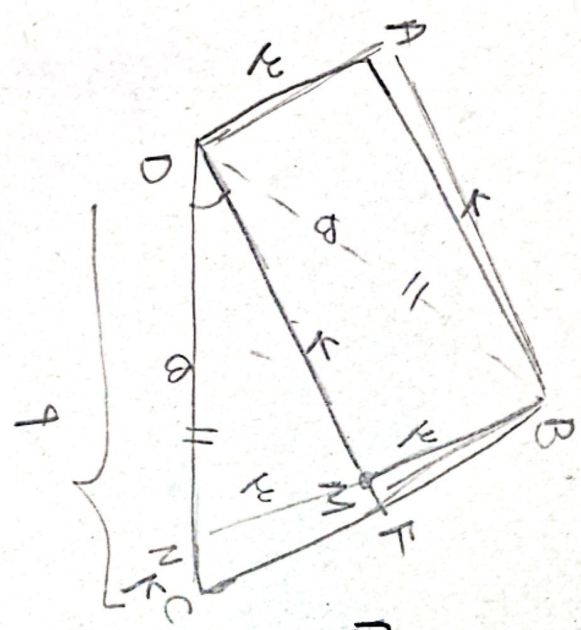
$$BCD = 18 \Rightarrow \hat{BDM} = \hat{MDC} = 18$$

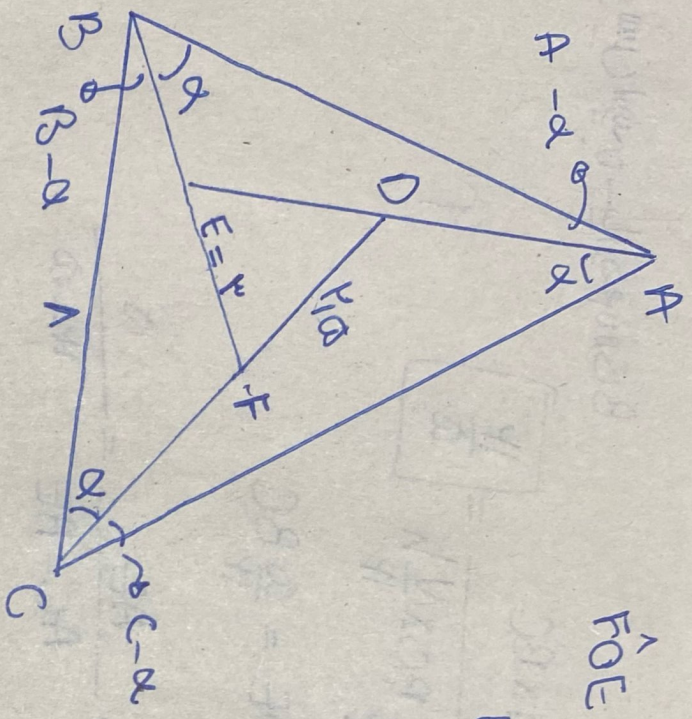
در نتیجه BDN مساوی است

BDN

$$MN = BM$$

$$\frac{BM}{BN} = \frac{MF}{NC} \Rightarrow \frac{11}{9} = \frac{MF}{11}$$





3) $\hat{FOE} \rightarrow \hat{AOC}$ سلائی $\hat{FOL} = \hat{C} - \alpha + \alpha = \hat{C}$

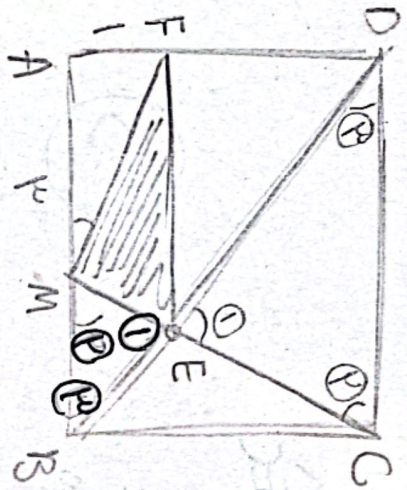
$\hat{EFD} \rightarrow \hat{EBC}$ سلائی $\hat{EFD} \Rightarrow \hat{B} - \alpha + \alpha = \hat{B}$

$\hat{DEF} \rightarrow \hat{AEC}$ سلائی $\hat{DEF} = \hat{A} - \alpha + \alpha = \hat{A}$

$\triangle ABC \cong \triangle DEF$ 3 $\Rightarrow \frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{FD}$

$AB = DE$

دو سرائے اریسے - یا زاہد سرائے



$$AM = MB = \frac{1}{2} \quad \hat{BCE} = \hat{AMF}$$

$$\hat{BCM} \sim \hat{AMF}$$

$$A = B = 40^\circ \quad F = M$$

$$\hat{E}_1 = \hat{E}_2, \hat{M}_1 = \hat{C}_1, \hat{D}_1 = \hat{B}_1$$

$$\frac{AM}{BC} = \frac{AF}{BM} = \frac{MF}{CM}$$

$$AF = \frac{1}{2}$$

$$MF = \frac{\sqrt{10}}{4} = \frac{\sqrt{10}}{2}$$

$$DEC \sim BEN$$

$$\frac{MB}{DC} = \frac{ME}{EC} = \frac{1}{2}$$

$$EC = 2ME$$

$$MC = EC + ME$$

$$2ME + ME = \sqrt{10}$$

$$ME = \frac{\sqrt{10}}{3}$$

$$AF$$

فرض

$$S_{FME} = \frac{\frac{\sqrt{10}}{2} \times \sqrt{10}}{2} = \frac{10}{4} = \frac{5}{2}$$

$$\widehat{DAE} = \widehat{ACD} \quad \widehat{BAE} = \widehat{DC}$$

$$\widehat{AE} = \widehat{C} \quad \widehat{EP} = \widehat{EP} \quad \widehat{AED} \sim \widehat{AEC}$$

$$\frac{ED}{AE} = \frac{AE}{CD + 10}$$

(5)

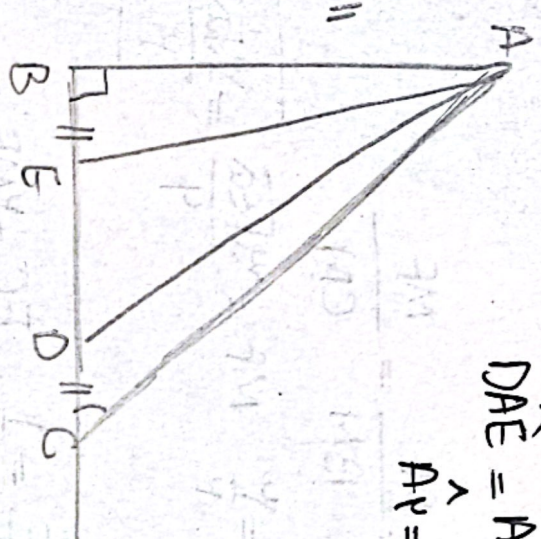
$$AE^2 = 10CD + 100 = 111 + 101$$

$$CD^2 = 10CD + 111 = AD^2$$

$$D = 14 \quad \frac{10 \pm 14}{r} \int v$$

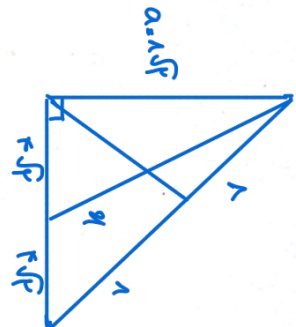
BC د هغه راښکاره کړئ

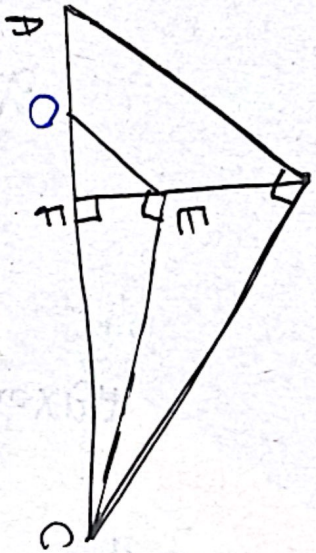
نور ښکاره کړئ



$$a^2 + a^2 = 14^2 \rightarrow a = 10\sqrt{2}$$

$$a^2 = (10\sqrt{2})^2 + (10\sqrt{2})^2 \rightarrow a = 10\sqrt{5}$$





$$OF = 1 \quad EF = x \quad AD = y \quad BC = ?$$

$$DE^2 = 1 + 14 \Rightarrow DE = \sqrt{15}$$

$$EF^2 = OF \times FC \Rightarrow \boxed{FC = 14}$$

$$AB^2 + BC^2 = \frac{AC^2}{AC^2}$$

$$BC = \sqrt{14}$$

$$ABC \sim BAF$$

$$\frac{FA}{BA} = \frac{BF}{BC} = \frac{AB}{AC}$$

$$AB^2 = 10 \quad AB = \sqrt{10}$$

$$BC^2 = 1 + 14$$

$$BC = \sqrt{15} = 2\sqrt{10}$$

$$BOE \sim COE$$

$$\frac{AC}{BC} = \frac{AE}{OC} = \frac{EC}{BO}$$

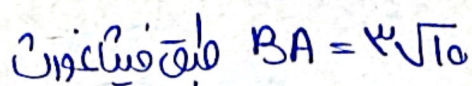
$$AE = \sqrt{10}$$

دو مثلث متساوی

$$S_{ABE} =$$

$$\frac{AE \times BE}{2} = \frac{\sqrt{10} \times \sqrt{10}}{2} = 5$$

مساحت المثلث - طالع مساحت



9

$$DC \times BA = \cancel{AC \times AC}$$

$$D_C = \frac{V_U}{\cancel{A_B} \sqrt{I_0}} = \frac{4}{\sqrt{I_0}}$$

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

$$AD^Y = 1 - DC^Y = 0.1$$

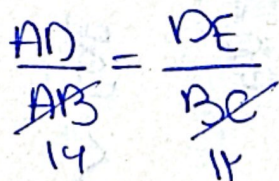
$$AB - AD = 4\sqrt{10} - \frac{4}{\sqrt{10}}$$

$$\frac{BE}{DE} = \frac{4}{10}$$

$$= \frac{4\sqrt{10}}{10} = \frac{4}{\sqrt{10}}$$

$$BE = 111$$

نویسنده ارشد - یازدهم سری B



$$\frac{\cancel{AE}}{\cancel{AE}} \Rightarrow DE = \frac{w_1}{w_2} \cdot b$$

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

$$14 \times 14 = 196$$

$$(9, 4)^r + x^r = 14^r$$

$$u = v, \gamma$$

$$AC^Y = 19Y + 11Y$$

$$AC = Y_0$$