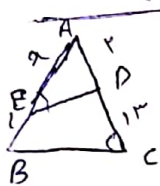


$BC \parallel AD \Rightarrow \hat{A}_1 = \hat{C}_1$
 $\hat{A}_1 = \hat{C}_1$
 $\hat{F}_1 = \hat{F}_2 \Rightarrow \hat{F}_1 = \hat{F}_2$
 $\hat{F}_1 = \hat{F}_2 \Rightarrow \hat{F}_1 = \hat{F}_2$

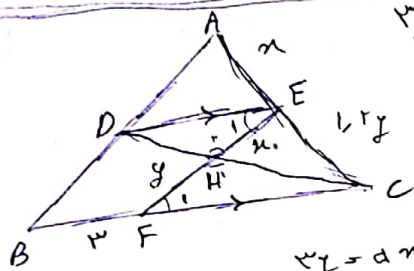
$BE = \sqrt{(2m)^2 + m^2} = \sqrt{5}m$
 $AC = \sqrt{(2m)^2 + (2m)^2} = \sqrt{8}m$
 $EF \in BC, \frac{1}{2}BC = EF \Rightarrow EF = \frac{\sqrt{5}m}{2}$
 $AF \in AC, \frac{1}{2}AC = AF \Rightarrow AF = \frac{\sqrt{8}m}{2}$
 $\frac{EF}{AF} = \frac{\frac{\sqrt{5}m}{2}}{\frac{\sqrt{8}m}{2}} = \frac{\sqrt{5}}{\sqrt{8}} = \frac{\sqrt{10}}{4}$



$AED = ACB$
 $\hat{A} = \hat{A}$
 $AED = ACB$
 $\hat{A} = \hat{A}$
 $\hat{A} = \hat{A}$
 $\hat{A} = \hat{A}$

$\frac{AE}{AC} = \frac{AD}{AB} \Rightarrow \frac{m}{2m} = \frac{y}{2m}$
 $\frac{m}{2m} = \frac{y}{2m}$
 $\frac{m}{2m} = \frac{y}{2m}$

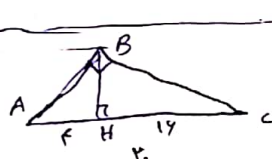
$m + n = 2$
 $m + n = 2$
 $m + n = 2$
 $m + n = 2$



$y = dm$
 $BC = ?$
 $y = dm$
 $1/2 y = \frac{d}{2} \times \frac{y}{d}$
 $1/2 y = \frac{d}{2} \times \frac{y}{d}$

$DE \parallel BC \Rightarrow \frac{DE}{BC} = \frac{AD}{AB} = \frac{AE}{AC}$
 $\frac{DE}{BC} = \frac{AD}{AB} = \frac{AE}{AC}$
 $\frac{DE}{BC} = \frac{AD}{AB} = \frac{AE}{AC}$

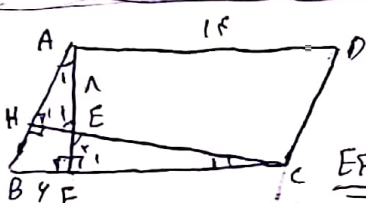
$BC = 2 + dz = 2 + \frac{d \times 2}{f} = \frac{2v}{f}$
 $BC = 2 + dz = 2 + \frac{d \times 2}{f} = \frac{2v}{f}$
 $BC = 2 + dz = 2 + \frac{d \times 2}{f} = \frac{2v}{f}$



$AB^2 = AH^2 + AC^2$
 $AB = \sqrt{2} = \sqrt{2}$
 $AB = \sqrt{2} = \sqrt{2}$

$BC^2 = 2 + AC^2$
 $BC = \sqrt{2} = \sqrt{2}$
 $BC = \sqrt{2} = \sqrt{2}$

$\frac{AB}{BC} = \frac{f \times d}{\sqrt{2}} = \frac{1}{2}$
 $\frac{AB}{BC} = \frac{f \times d}{\sqrt{2}} = \frac{1}{2}$



$\hat{A}_1 = \hat{C}_1$
 $\hat{A}_1 = \hat{C}_1$
 $\hat{A}_1 = \hat{C}_1$
 $\hat{A}_1 = \hat{C}_1$

$EF = f$
 $AE = 1 + EF = 1 + f = 1 + f$
 $AE = 1 + EF = 1 + f = 1 + f$

$\frac{AB}{CE} = \frac{BF}{FE} = \frac{AF}{FC}$
 $\frac{AB}{CE} = \frac{BF}{FE} = \frac{AF}{FC}$
 $\frac{AB}{CE} = \frac{BF}{FE} = \frac{AF}{FC}$

$\frac{4}{n} = \frac{1 + n}{1f - 4}$
 $\frac{4}{n} = \frac{1 + n}{1f - 4}$
 $\frac{4}{n} = \frac{1 + n}{1f - 4}$



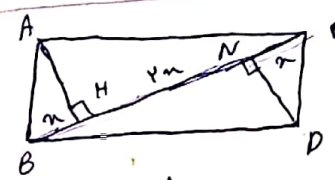
$\hat{B}_1 = \hat{B}_2$
 $\hat{B}_1 = \hat{B}_2$
 $\hat{B}_1 = \hat{B}_2$
 $\hat{B}_1 = \hat{B}_2$

$\hat{B}_1 = \hat{B}_2$
 $\hat{B}_1 = \hat{B}_2$
 $\hat{B}_1 = \hat{B}_2$
 $\hat{B}_1 = \hat{B}_2$

$\hat{E}_1 = \hat{B}_1 \Rightarrow \hat{B}_1 = \hat{E}_1$
 $\hat{E}_1 = \hat{B}_1 \Rightarrow \hat{B}_1 = \hat{E}_1$
 $\hat{E}_1 = \hat{B}_1 \Rightarrow \hat{B}_1 = \hat{E}_1$

$HD = EH \times BH \Rightarrow HD = \sqrt{(d/2)^2} = \frac{d}{2}$
 $HD = EH \times BH \Rightarrow HD = \sqrt{(d/2)^2} = \frac{d}{2}$
 $HD = EH \times BH \Rightarrow HD = \sqrt{(d/2)^2} = \frac{d}{2}$

$n = 4, 4$
 $AE = 4, 4$
 $n = 4, 4$
 $AE = 4, 4$

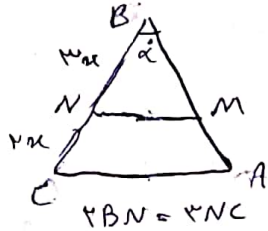


$ABC \Rightarrow AH^2 = BH \times BC$
 $AH^2 = m \times 2m$
 $AH = \sqrt{2}m$
 $AH = \sqrt{2}m$

$\frac{S_{ABCD}}{S_{ABH}} = \frac{f \times \sqrt{2}m}{\frac{f \times \sqrt{2}m}{2}} = 2$
 $\frac{S_{ABCD}}{S_{ABH}} = \frac{f \times \sqrt{2}m}{\frac{f \times \sqrt{2}m}{2}} = 2$
 $\frac{S_{ABCD}}{S_{ABH}} = \frac{f \times \sqrt{2}m}{\frac{f \times \sqrt{2}m}{2}} = 2$

$NCD \subseteq ABH \Rightarrow \frac{\sqrt{2}m \times n}{2} = \frac{\sqrt{2}m^2}{2}$
 $NCD \subseteq ABH \Rightarrow \frac{\sqrt{2}m \times n}{2} = \frac{\sqrt{2}m^2}{2}$
 $NCD \subseteq ABH \Rightarrow \frac{\sqrt{2}m \times n}{2} = \frac{\sqrt{2}m^2}{2}$

$\frac{S_{ABCD}}{S_{ABH}} = \frac{f \times \sqrt{2}m}{\frac{f \times \sqrt{2}m}{2}} = 2$
 $\frac{S_{ABCD}}{S_{ABH}} = \frac{f \times \sqrt{2}m}{\frac{f \times \sqrt{2}m}{2}} = 2$
 $\frac{S_{ABCD}}{S_{ABH}} = \frac{f \times \sqrt{2}m}{\frac{f \times \sqrt{2}m}{2}} = 2$

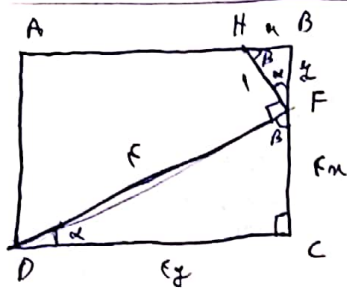


$$\frac{S_{ABC}}{S_{ANM}} = \frac{\frac{1}{2} \sin \alpha \cdot BC \cdot AB}{\frac{1}{2} \sin \alpha \cdot BN \cdot BM} = \psi$$

$$\frac{BC \cdot AB}{BN \cdot BM} = \frac{ax}{x^2} = \frac{BM+MA}{BM} = \psi \quad \frac{BM+MA}{BM} = \frac{a}{x} \quad 1 + \frac{MA}{MB} = \frac{a}{x}$$

$$\frac{MA}{MB} = \frac{a}{x} - 1 = \frac{a-x}{x}$$

$$\boxed{\frac{BM}{AM} = \frac{a}{x}}$$

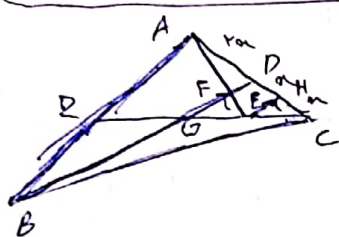


$$x^2 + y^2 = 1 \quad \sim \sim \quad x^2 + \frac{14}{a} x^2 = 1 \quad \text{if } y = \frac{14}{a}$$

$$x^2 + y^2 = 1 \quad \sim \sim \quad \frac{14}{a} x^2 = 1 \quad \text{if } y = \frac{14}{a}$$

$$\frac{a}{x} x = 1 \quad \sim \sim \quad x = \frac{x}{a}, \quad y = \frac{x}{a}$$

$$\boxed{\frac{14}{a}}$$



$$\frac{BD}{FD} = \frac{AD}{EH} \quad \text{if } AE, EH \parallel BD \sim \sim \quad BD \sim \sim \quad AD = DC$$

$$HE \parallel BD \xrightarrow{AEC} \frac{FD}{EH} = \frac{AD}{AH} = \frac{x}{x+a} = \frac{x}{a}$$

$$HE \parallel BD \xrightarrow{GED} \frac{EH}{GD} = \frac{CH}{CD} = \frac{x}{x+a} = \frac{x}{a}$$

$$\frac{GD}{BG} = \frac{1}{x} \quad \frac{EH}{BD} = \frac{1}{x}$$

$$\frac{1}{x} \cdot \frac{1}{x} = \frac{1}{x^2}$$

$$\frac{FD}{BD} = \frac{FD}{EH} \times \frac{EH}{BD} = \frac{1}{x}$$

$$\boxed{\frac{BD}{FD} = x}$$