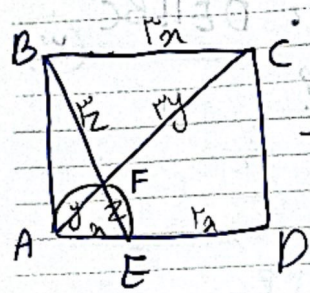


سارینا اسپانی - یازدهم رشتہ C - شماره تلفن (۲۱)



$$\frac{EF}{AF} = ? \quad \frac{AE}{BC} = \frac{AF}{FC} = \frac{EF}{BF} = \frac{1}{2} \quad (1)$$

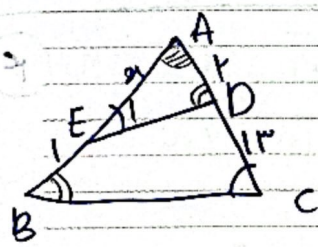
$$\rightarrow \angle AFE = \angle FCB \quad \& \quad \angle EFC = \angle BFC$$

$$(AC)^2 = (2a)^2 + (2a)^2 = 18a^2 \quad AC = 3\sqrt{2}a \quad (5)$$

$$xy = 2\sqrt{2}a \rightarrow y = \frac{2\sqrt{2}}{x}a$$

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

$$\frac{EF}{AF} = \frac{z}{y} = \frac{\frac{\sqrt{10}}{x}a}{\frac{2\sqrt{2}}{x}a} = \sqrt{\frac{10}{18}} = \frac{\sqrt{5}}{3} \quad \boxed{z = \frac{\sqrt{10}}{3}a}$$



$$\frac{x+1}{4} = \frac{1}{3}$$

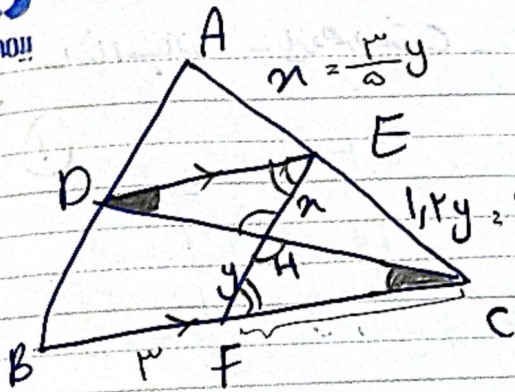
$$x+1 = 4$$

$$x+1-4 = 0 \rightarrow (x-4)(x+5) = 0$$

$$\boxed{x=4} \quad \boxed{x=-5}$$

$$\begin{cases} \hat{A} = \hat{A} \\ \hat{C} = \hat{E} \end{cases} \quad \text{زاویه مشترک}$$

$$\rightarrow \Delta ABC \sim \Delta AED$$



$m = \frac{3}{5}y$ $BF = 3$ $3y = 5x$ $DE \parallel BC$ (3)

BC = ?

$\frac{x}{y} = \frac{DE}{FC} = \frac{\frac{3}{5}y}{y} = \frac{3}{5}$

$5DE = 3FC$

$DE = \frac{3}{5}FC$

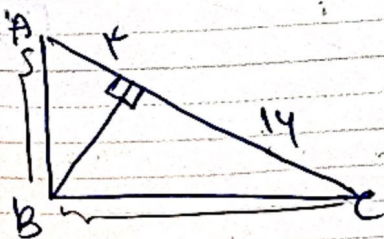
$\frac{AE}{AC} = \frac{DE}{BC} = \frac{AD}{AB} = \frac{\frac{3}{5}y}{\frac{4}{5}y + \frac{3}{5}y} = \frac{3}{7}$

$\frac{3}{7} = \frac{DE}{3+FC}$

$\frac{1}{3} = \frac{\frac{3}{5}FC}{3+FC} \rightarrow 3+FC = \frac{9}{5}FC$

$3 = \frac{4}{5}FC \rightarrow FC = \frac{15}{4}$ (15/4)

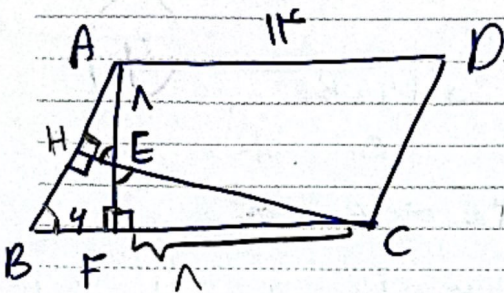
$BC = 3 + \frac{15}{4} = \frac{27}{4}$



$BC^2 = 14 \times 2 \rightarrow \sqrt{14 \times 2} = 1\sqrt{2} = BC$ (14)

$AB^2 = 4 \times 2 \rightarrow 1\sqrt{2} = AB$

$\frac{BC}{AB} = \frac{1\sqrt{2}}{1\sqrt{2}} = 1$ (1)



(۱) $\hat{B} = \hat{B}$ زاویه مشترک $\rightarrow \Delta ABF \sim \Delta CHB$
 $F = H = 90^\circ$

$$\frac{BH}{BF} = \frac{CH}{AF} = \frac{BC}{AB} \rightarrow \frac{BH}{4} = \frac{CH}{2+\lambda}$$

(۲) $\hat{C} = \hat{C}$
 $\hat{F} = \hat{H} = 90^\circ$ $\rightarrow \Delta EFC \sim \Delta HCB \rightarrow \frac{BC}{EC} = \frac{BH}{FE} = \frac{HC}{FC}$
 $\rightarrow \frac{HC}{\lambda} = \frac{BH}{2\lambda}$

ساروز تشکیل نہضت سواد آموزی به فرمان حضرت امام خمینی (ره) (۱۳۵۸ هـ.ش)



(۱) (۲) $\rightarrow$

$$\frac{BH}{4} = \frac{CH}{2+\lambda}$$

$$\frac{BH}{2} = \frac{CH}{\lambda}$$

$$\frac{2}{4} = \frac{\lambda}{2+\lambda}$$

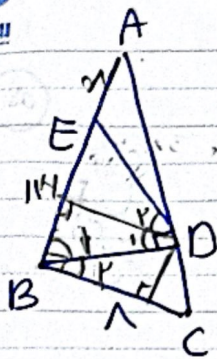
$$2^2 + \lambda^2 = 4\lambda \rightarrow 2^2 + \lambda^2 - 4\lambda = 0$$

$$(2 + \lambda)(2 - \lambda) = 0$$

$AF = 4 + \lambda = 12$

$2 = -12$
غیر ممکن

$2 = 4$
✓



$$B_1 = B_2$$

$$HD \parallel BC \rightarrow D_1 = B_2 \rightarrow D_1 = B_1$$

$$DH = BH$$

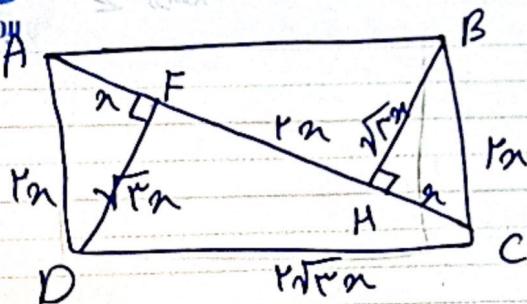
$$\hat{A} = 90^\circ \rightarrow B_1 = D_1 \rightarrow \hat{A} = 90^\circ \rightarrow B_2 = \hat{A}$$

$$\triangle DEB \rightarrow EH \times BH = DH^2 \rightarrow EH = BH = \frac{11}{2}$$

$$HD \parallel BC \rightarrow \frac{x + \frac{11}{2}}{x + 11} = \frac{\frac{11}{2}}{11} \rightarrow \frac{x + \frac{11}{2}}{x + 11} = \frac{1}{2}$$

$$11x + 11 = 14x + 11 \rightarrow \boxed{x = 4.4}$$

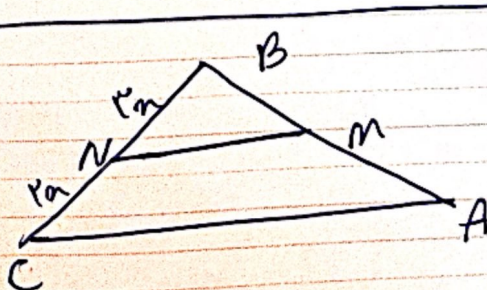
روز بصیرت و میثاق امت با ولایت



$$\frac{SABCD}{SBCM} = \frac{AD \times DC}{\frac{1}{2} \times BH \times CH}$$

$$\frac{12 \times 12}{\frac{1}{2} \times 12 \times 12} = 1$$

$$BC^2 = HC \times AC = BC \times 12$$



$$\frac{BC \times AB \times \sin \hat{B}}{BN \times MB \times \sin \hat{B}} = 1$$

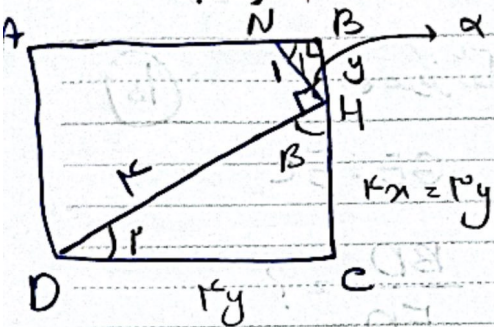
$$\frac{12 \times 12}{12 \times 12} = 1$$

$$\frac{AB}{MB} = \frac{4}{1}$$

$$\frac{BM}{AB} = \frac{1}{4} \rightarrow \frac{BM}{AM} = \frac{1}{3}$$

11

دي | ١٨ جمادى الثانيه ١٤٤٥
دوشنبه | Mon 1 Jan 2024



مساحت مربع 2

$$\alpha + \beta + 90 = 180 \rightarrow \alpha + \beta = 90 \quad (4)$$

$$\Delta NHB \rightarrow 90 + \alpha + N_1 = 180$$

$$N_1 = 90 - \alpha = \beta$$

$$\Delta DHC \rightarrow D_1 + 90 + \beta = 180$$

$$D_1 = 90 - \beta = \alpha$$

$$\hat{B} = \hat{C} = 90$$

$$\hat{H}_1 = \hat{D}_1 = \alpha$$

$$\hat{H}_2 = \hat{N}_1 = \beta$$

$$\rightarrow \Delta NHB \sim \Delta DHC$$

$$\frac{BN}{CH} = \frac{BH}{CD} = \frac{1}{r} \rightarrow r \cdot BH = CD \quad (BH = y)$$

$$\rightarrow r \cdot BN = CH \quad (BN = x)$$

آغاز سال ٢٠٢٤ ميلادى

12

دي | ١٩ جمادى الثانيه ١٤٤٥
سه شنبه | Tue 2 Jan 2024



$$\text{مربع} \rightarrow BC = DE$$

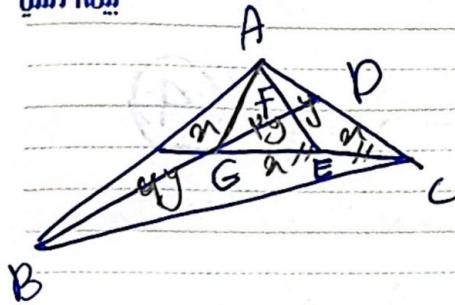
$$\rightarrow r \cdot y = y + r \cdot x$$

$$[r \cdot x = r \cdot y]$$

$$\Delta ACH : (DH)^2 = (CH)^2 + (DC)^2 \rightarrow (DH)^2 = (r \cdot y)^2 + (r \cdot y)^2$$

$$DH = 2y = r \rightarrow y = \frac{r}{2} \rightarrow DC = r \times \frac{r}{2} = \frac{r^2}{2}$$

$$S \text{ مربع} = \frac{14}{2} \times \frac{14}{2} = 10, r \cdot r$$



(۱۰) $G \leftarrow$ مرکز ثقل $\leftarrow$ محل برخورد میانہ ہا

$$GE = EC$$

$$\frac{BD}{FD} = ?$$

$$BG = 2GD = 2 \times 3y = 6y$$

۳) CM میانہ AB است

$$GF = 2FD = 2y$$

BC میانہ AC است

در مثلث میانہ ہا ایک دوسرے پر نسبت ۲:۱ میں تقسیم ہوتے ہیں

$$\frac{BD}{FD} = \frac{6y}{2y} = 3$$

در مثلث AGC : DG میانہ AC و AE میانہ GE است

ولادت حضرت زہرا (س) و روز زن - تولد حضرت امام خمینی (ره) رہبر انقلاب - روز جهانی مقاومت - شہادت سپہبد قاسم سلیمانی