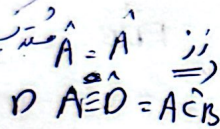


$$AC = r \sqrt{r} \infty = AF + FC$$

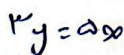
$$\frac{EF}{BE} = \frac{1}{r} \quad \frac{EF}{BE} = \frac{1}{r} \Rightarrow EF = \frac{\sqrt{10} \times}{\epsilon}$$

$$\frac{EF}{AF} = \frac{\frac{\sqrt{11} \cdot x}{x}}{\frac{x}{\frac{x}{\sqrt{11}}}} = \frac{\sqrt{11}}{\frac{x}{x}} = \frac{\sqrt{11}}{1} = \boxed{\sqrt{11}}$$



$$\frac{Y}{1+0.12} = \frac{2}{1.12} \Rightarrow r_{0.12} = \frac{2}{1.12} \Rightarrow 1 + 0.12 = 1.12 \Rightarrow (1 + 0.12)(1 - 0.12) = 1$$

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



$$g = \frac{d\sigma}{\mu}$$

$$1, 2, y \approx \frac{1, 2 \times 10^8}{x} \approx 2 \times 10^8$$

$$RBC = r + \underbrace{\frac{\Delta}{r} \times \frac{r}{\Sigma}}_{\frac{10}{r}} = \frac{1r}{r} + \frac{10}{2} = \frac{rV}{\Sigma}$$

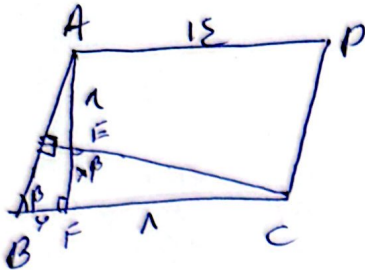
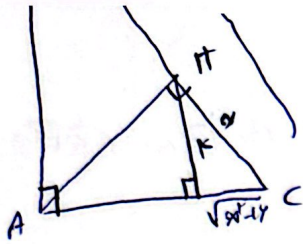
$$DE \parallel FC \Rightarrow \begin{matrix} \hat{E}_1 = \hat{F}_1 \\ \hat{D}_1 = \hat{C}_1 \end{matrix} \xRightarrow{''} DEH \sim CFH \Rightarrow \frac{EH}{HF} = \frac{DE}{FC} \Rightarrow \frac{r}{2} = \frac{DE}{FC}$$

$$DE \parallel BC \Rightarrow \frac{1}{r} = \frac{z}{\frac{a}{r}z + r}$$

$$r^2 C = \frac{dZ}{r}$$

$$\frac{Q}{r} 2 + r = \cancel{r} \frac{Q}{r} 2$$

$$\frac{r}{r} 2 = r \Rightarrow 2 = \frac{Q}{r}$$



$$\hat{F} = \hat{B}F = 90^\circ \quad \hat{F}EC \quad \Rightarrow \triangle ABF \sim \triangle CEF$$

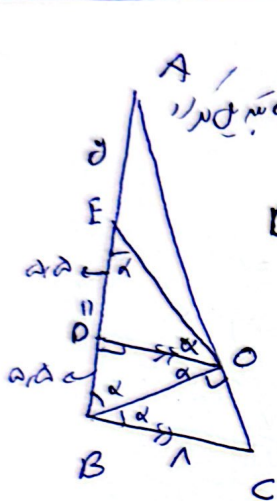
$$\rightarrow \frac{AF}{CF} = \frac{BF}{EF} \Rightarrow \frac{x+1}{1} = \frac{y}{14} \quad x+14-y=14$$

$$(x+14)(y-14)=1$$

$$x = -14 \text{ or } x = 14$$

$$x = 14$$

$$AF = x + AE = 14 + 1 = 15$$



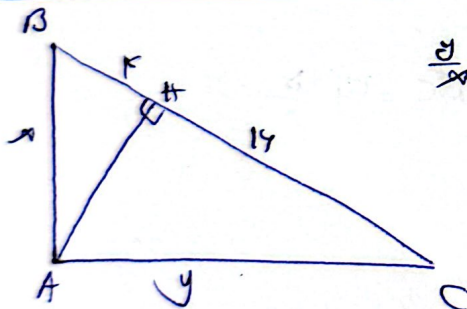
$$BC \parallel OD \Rightarrow \angle B = \angle ODC \Rightarrow \angle B = \angle ODC$$

$$D \text{ on } BC \Rightarrow x = d, d \times d, d \Rightarrow x = d, d$$

$$\Rightarrow \frac{AO}{AB} = \frac{OD}{BC} \Rightarrow \frac{y+d}{x} = \frac{1}{14}$$

$$\Rightarrow 14y = 14 + 11y \Rightarrow$$

$$3y = 14 \Rightarrow y = \frac{14}{3} = 4\frac{2}{3}$$

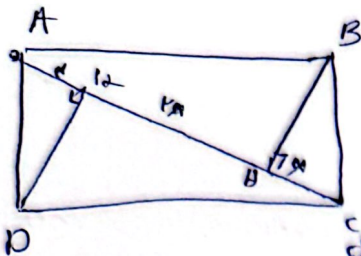


$$\frac{y}{x}$$

$$x^2 = BH \cdot BC \Rightarrow x = \sqrt{1 \times 14} = \sqrt{14}$$

$$y^2 = CH \cdot BC \Rightarrow y = \sqrt{14 \times 14} = 14$$

$$\frac{y}{x} = \frac{\sqrt{14 \times 14}}{\sqrt{1 \times 14}} = \sqrt{\frac{14 \times 14}{1 \times 14}} = \sqrt{14} = \frac{14}{\sqrt{14}} = \frac{1}{\sqrt{14}}$$

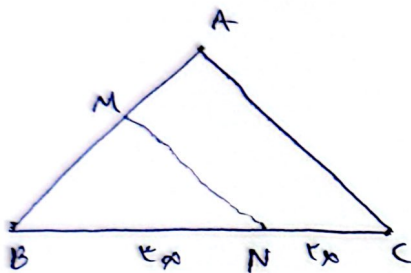


$$S_{BHC} = \frac{1}{2} \times BH \times HC$$

$$S_{ABC} = \frac{1}{2} \times BH \times AC$$

$$S_{\text{rect}} = S_{ABC} + S_{ADC} = BH \times 29$$

$$\frac{S_{\text{rect}}}{S_{BHC}} = \frac{BH \times 29}{\frac{1}{2} \times BH \times 17} = 2 \times \frac{29}{17} = \frac{58}{17}$$

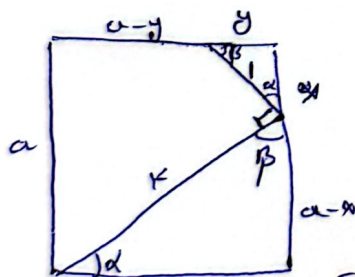


$$S_{ABC} = r \cdot S_{BMN} \quad \frac{BM}{AM} = r$$

$$\frac{S_{ABC}}{S_{BMN}} = \frac{\frac{1}{2} \times AB \times BC \sin B}{\frac{1}{2} \times BM \times BN \sin B} = r$$

$$\frac{AB \times 2x}{BM \times x} = r \Rightarrow \frac{AB}{BM} = \frac{r}{2}$$

$$\frac{AM}{AB - BM} = \frac{r}{2} \Rightarrow \frac{BM}{AM} = \frac{2}{r-2} = \frac{1}{2} \Rightarrow \frac{BM}{AM} = \frac{1}{2}$$



$$\triangle DEC \sim \triangle EAB$$

$$\Rightarrow \frac{DC}{EB} = \frac{EC}{AB} = \frac{DE}{EA} = \frac{y}{a-x} = \frac{x}{a} = \frac{1}{2}$$

المثلثات
DEC و EAB
متشابهتان

$$14(a-x) = 14x^2 + 9x^2$$

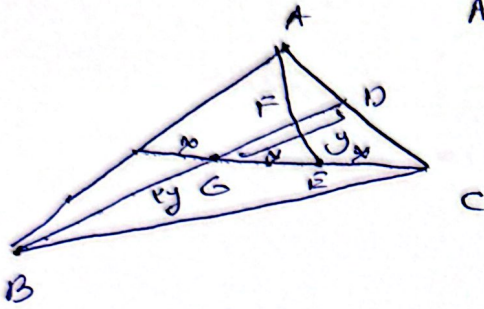
$$14 = 14x^2 + 9x^2$$

$$a^2 = 14x^2 + 9x^2 = 23x^2$$

$$a^2 = \frac{14 \times 14}{23} = 1.112$$

میان خط‌های

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میان خط‌های AB و AC است $GE = EC$ $\frac{BD}{FD} = ?$

و مثلث‌های متشابه ABC و DEF و $AE = GD$ AGC

$GF = 2y$
 $FD = \frac{1}{3}y$

$\frac{BD}{FD} = \frac{4y}{\frac{1}{3}y} = 4$