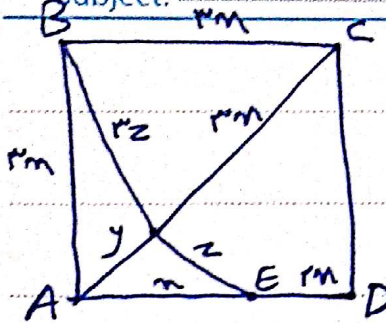


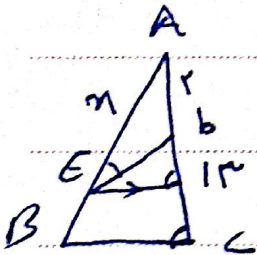
Subject:



$$BE \rightarrow \sqrt{r^2 + 1} m = \sqrt{10} m$$

$$EF \rightarrow \frac{1}{\epsilon} \sqrt{10} n$$

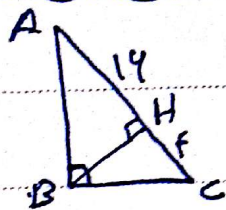
$$AC \rightarrow r\sqrt{2} m \quad \frac{EF}{AF} = \frac{\frac{1}{\epsilon} \sqrt{10} n}{\frac{1}{\epsilon} \times r\sqrt{2} m} = \frac{\sqrt{5}}{r}$$



$$\triangle ADE \sim \triangle ABC \rightarrow \frac{r}{m+1} = \frac{n}{10} \rightarrow \boxed{n=a}$$

$$m = rK \quad y = aK \quad \frac{ra}{r+a} = \frac{rK}{9K} = \frac{1}{9} \rightarrow a = \frac{r}{\epsilon} = 0.14a$$

$$B = 9/14$$



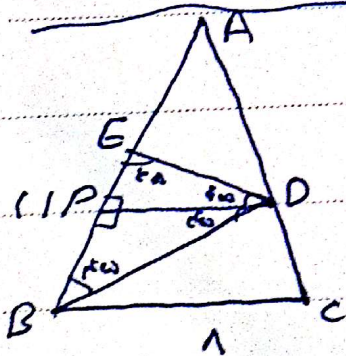
$$(BC)^r = r \times 10 \rightarrow BC = \sqrt{10} = r\sqrt{2}$$

$$(AB)^r = 14 \times 10 \Rightarrow AB = \sqrt{140} = r\sqrt{10}$$

$$\frac{AB}{BC} = \frac{r\sqrt{10}}{r\sqrt{2}} = \sqrt{5} \approx \frac{1}{\epsilon}$$

$$\triangle BAF \sim \triangle ECF \rightarrow \frac{BF}{EF} = \frac{AF}{CF} \rightarrow \frac{9}{m} = \frac{n+n}{n} \rightarrow n(m+n) = 9n$$

$$\boxed{AF=12}$$



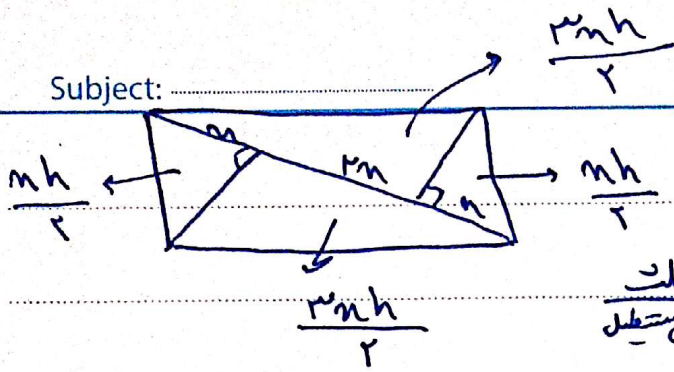
$$DP = \frac{\sqrt{r}}{r} \times \sqrt{10} \Rightarrow \omega, \omega = EP, PP$$

$$\frac{n+\omega, \omega}{n+11} = \frac{\omega, \omega}{n}$$

$$\text{Ex } r, \omega n = 14, \omega \rightarrow \boxed{n=4, 9}$$

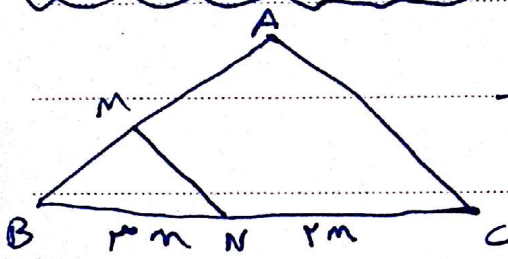
Subject: _____

Date: _____



$$\text{جانب} = nh + rnh = rnh \quad - V_1$$

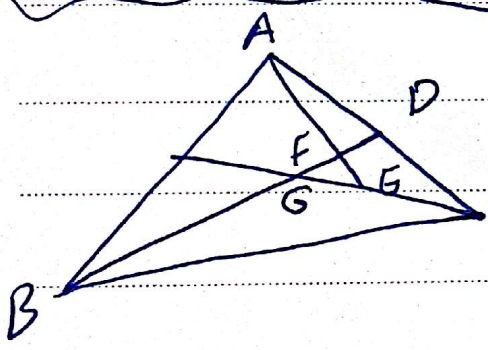
$$\frac{\text{مساحة}}{\text{مساحة}} = \frac{\frac{nh}{r}}{rnh} = \frac{nh}{rnh} = \left(\frac{1}{r}\right)$$



$$\frac{S_{BMN}}{S_{ABC}} = \frac{BM \times BN}{BA \times BC} = \frac{BM}{AB} \times \frac{r}{r} = \frac{1}{r} \quad - 11$$

$$\rightarrow \frac{BM}{AB} = \frac{1}{r} \rightarrow \frac{BM}{AM} = \frac{1}{r} = \left(\frac{1}{r}\right) \quad 5$$

9



$$BF = FD, GE = EC \quad - 10$$

$$BD = BF + FD = FD + FD = 2FD \quad 10$$

$$\frac{BD}{FD} = (2)$$

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