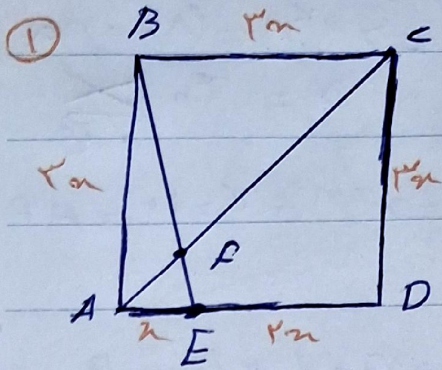


* کسان جو مقرب *

Date _____

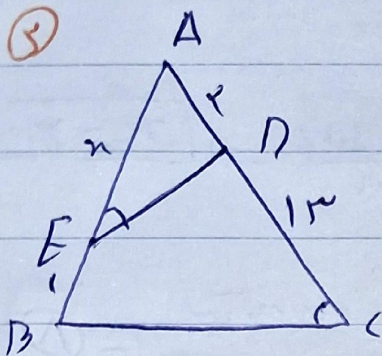
Subject _____



$$AC = r\sqrt{5} \quad \frac{FC}{AF} = \frac{r}{1} \Rightarrow AC \times \frac{1}{r} = AF$$

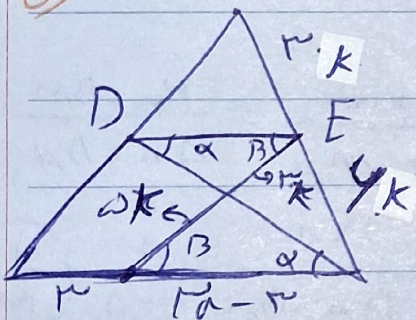
$$\sqrt{5}r = BE \quad \frac{BF}{EF} = \frac{r}{1} \Rightarrow EF \times \frac{1}{r} = BF$$

$$\Rightarrow AF = \frac{r\sqrt{5}}{r}, \quad EF = \frac{\sqrt{5}}{r} \Rightarrow \frac{EF}{AF} = \frac{\sqrt{5}}{r}$$



$$\frac{AD}{AB} = \frac{ED}{BC} = \frac{AE}{AC} \Rightarrow \frac{r}{1+n} = \frac{n}{r+1}$$

$$\Rightarrow \frac{r}{1+n} = \frac{n}{1} \Rightarrow r = n(n+1) \Rightarrow \boxed{n=1}$$

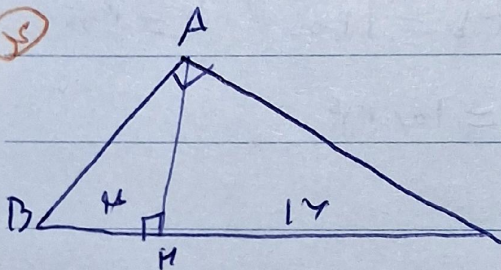


$$\left. \begin{aligned} \angle D = \angle F \\ \angle E = \angle F \end{aligned} \right\} \Rightarrow \triangle DEF \sim \triangle FHC$$

$$DE = a \Rightarrow \frac{rk}{rk} = \frac{a}{BC} \Rightarrow rk = BC$$

$$\frac{a}{rk - r} = \frac{r}{1} \Rightarrow 9a - a = 8a \Rightarrow a = \frac{9}{rk}$$

$$\frac{9}{rk} \times rk = \frac{rk}{rk} = BC$$

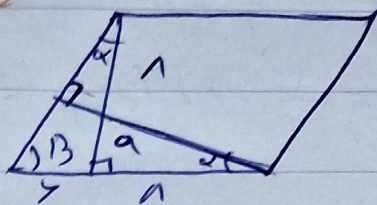


$$AM = \sqrt{17 \times 17} = 17$$

$$AB = \sqrt{17 \times 17} = 17\sqrt{2}$$

$$AC = \sqrt{17 \times 17} = 17\sqrt{2}$$

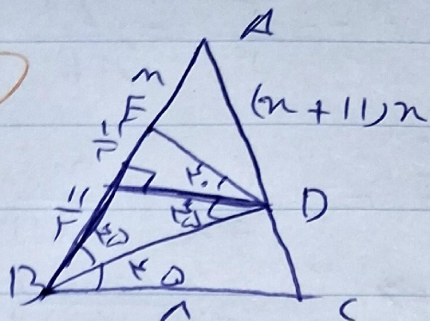
$$\frac{AB}{AC} = \frac{17\sqrt{2}}{17\sqrt{2}} = 1$$



$$\frac{y}{a} = \frac{n+a}{1} \Rightarrow r_n = (n+a)a$$

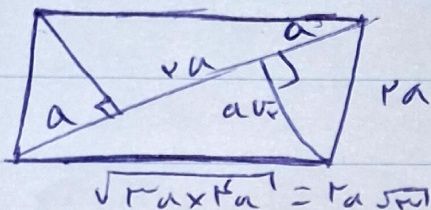
$$a = r_0, \text{ ~~XXXX~~ } \text{موقوف}$$

$$\Lambda + u = A F \Rightarrow \Lambda + K = I F = A F$$

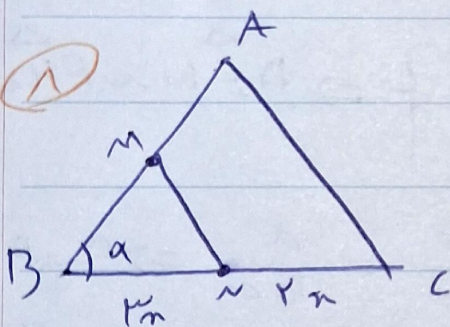


$$\left. \begin{array}{l} DM \perp AB \\ B \subset HM \end{array} \right\} \Rightarrow B \subset \perp AB \Rightarrow B_1 = B_2 = B_3 = \dots$$

$$\frac{n+10}{100} = \frac{n+11}{n} \Rightarrow \boxed{n=74}$$

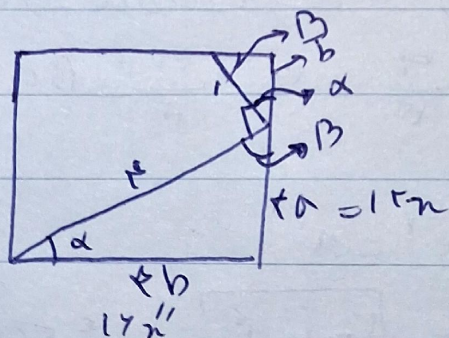


$$\frac{d}{dr} \left(\frac{1}{r} a \times a \times \sqrt{r} \right) = \frac{1}{r} a \times a \times \sqrt{r}$$



$$\frac{S_{BMN}}{S_{ABC}} = \frac{\sin \alpha \times BN \times BM}{\sin \alpha \times BC \times BA} = \frac{BN \times BM}{BN \times BA} = \frac{1}{n}$$

$$\Rightarrow \frac{B_m}{B_A} = \frac{\Delta}{a} \Rightarrow \frac{B_m}{B_A - B_m} = \frac{\Delta}{a - \Delta} = \left(\frac{\Delta}{\delta} \right)$$



$$\vdash a + b = \vdash b \quad a = r_n$$

$$r_a = r_b = 1 + n \quad b = r_n$$

$$\beta_B = 10, \text{ MPa}$$

A geometric diagram showing a triangle ABC with vertices A (top), B (bottom left), and C (bottom right). Point D is on side AC , point E is on side BC , and point F is on side AB . Lines AD , BE , and CF are drawn and intersect at point G . The segments DG , GE , and GF are each labeled with the variable x .

$$\begin{aligned} & \left. \begin{array}{l} FD = \gamma x \\ EM = \gamma x \Rightarrow GD = \gamma x \\ \Rightarrow BG = \gamma GD \end{array} \right\} \end{aligned}$$

$$B D = B G + G D = 1 \text{ km} + 7 \text{ km} = 14 \text{ km}$$

$$\Rightarrow \frac{BD}{FD} = \frac{12}{12} = 1$$