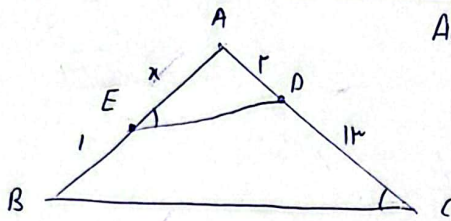


$$\sqrt{(r_n)^2 + x^2} = x\sqrt{10} = BE = r_y \rightarrow y = \frac{x\sqrt{10}}{r}$$

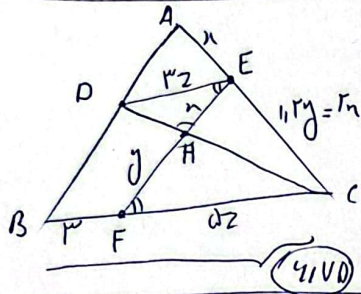
$$AEF, BCF \rightarrow \frac{FE}{FB} = \frac{AF}{FC} = \frac{AE}{BC} \rightarrow \frac{y}{z} = \frac{x\sqrt{10}}{r_n\sqrt{2}} = \frac{\sqrt{10}}{3}$$

$$\sqrt{r(r_n)^2} = r_n\sqrt{r} = r_z \rightarrow z = \frac{r_n\sqrt{r}}{r}$$



$$\hat{AED} = \hat{ACB} \rightarrow \hat{A} = \hat{A} \quad \hat{ADE} = \hat{ABC} \Rightarrow \hat{ADE}, \hat{ABC} \text{ متشابه}$$

$$\frac{r}{\lambda+1} = \frac{x}{10} \rightarrow r_0 = \lambda + n \rightarrow \lambda + n - r \rightarrow (\lambda + 4)(\lambda - 0) = 0 \rightarrow \lambda = 0$$



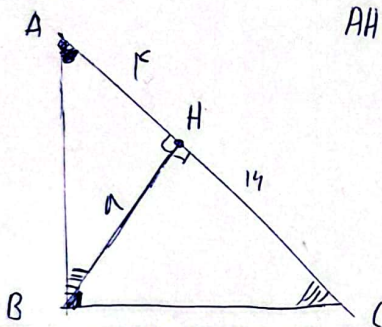
$$DE \parallel BC \quad r_y = 0.1n \quad RF = r \rightarrow y = \frac{0.1n}{r}$$

$$\triangle AED, \triangle ABC \rightarrow \frac{x}{n+1/r_y} = \frac{DE}{BC} = \frac{1}{r}$$

$$\triangle DEH, \triangle FCH \rightarrow \frac{n}{y} = \frac{DE}{RF} = \frac{1}{r}$$

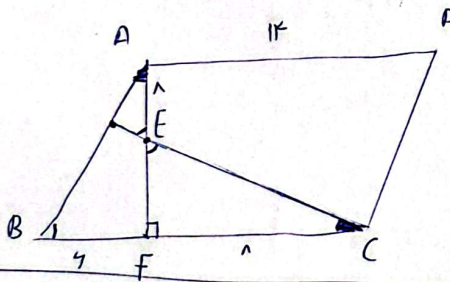
$$\frac{x}{n+1/r_y} = \frac{n}{y+r} \rightarrow x + r_n = \frac{0.1}{r} \lambda + r \rightarrow r_n = \frac{0.1}{r} \lambda + r \rightarrow \frac{r}{r} \lambda = r \rightarrow \lambda = \frac{0.1}{r}$$

$$0.2z + r = 9z \rightarrow z = \frac{r}{9} \rightarrow 9z = \frac{r}{9}$$



$$AH \times CH = BF^2 \rightarrow r \times 14 = \lambda^2$$

$$\frac{BC}{AB} = \frac{HC}{HB} = \frac{14}{r} = \frac{1}{r}$$

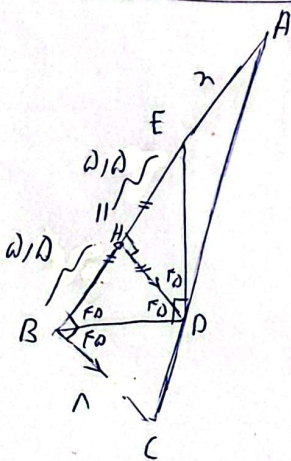


$$\triangle AFR, \triangle EFC \rightarrow \frac{EC}{AF} = \frac{EF}{RF} \rightarrow \frac{\lambda}{FE+\lambda} = \frac{FE}{4}$$

$$\rightarrow r\lambda = FE^2 + \lambda FE \rightarrow FE^2 + \lambda FE - r\lambda$$

$$(FE+\lambda)(FE-r) \rightarrow FE=r$$

$$FE + AE = AF = 12$$

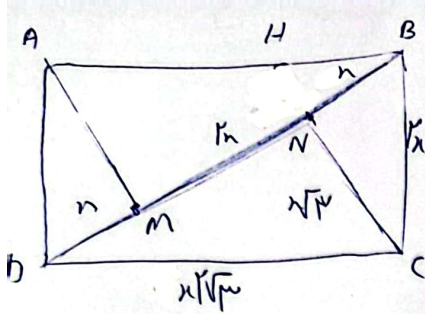


$$\frac{EH}{BH} = 1 \rightarrow EH = BH = \frac{11}{r} = 0.10$$

$$\frac{n+0.10}{n+11} = \frac{0.10}{r}$$

$$\rightarrow n + rf = 0.10\lambda + 40.10$$

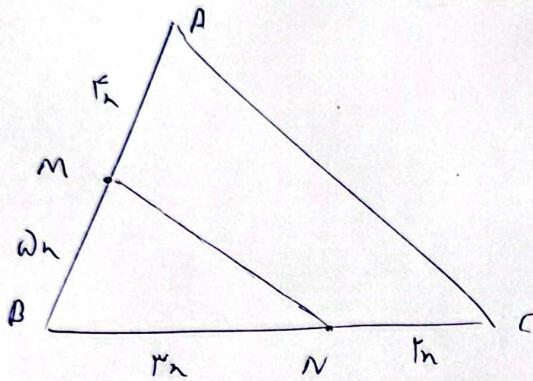
$$\rightarrow 11.10 = r_0 n \rightarrow \lambda = 4.4$$



$$NBC, DBC \rightarrow \frac{BC}{DB} = \frac{NB}{BC} \rightarrow (BC)' = r_n' - BC = \lambda$$

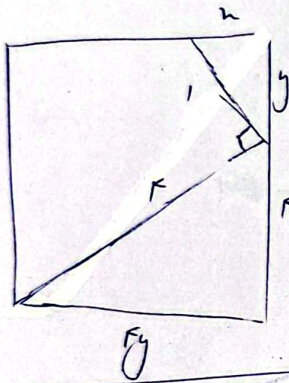
$$14 \quad r_n' = r_n' + r' \rightarrow DC = \lambda\sqrt{2} \rightarrow \frac{\sqrt{2}\lambda \times \lambda}{r_n' \sqrt{2}} = \frac{\lambda^2 \sqrt{2}}{r_n' \sqrt{2}} = \frac{1}{\lambda}$$

$$\rightarrow \frac{\text{المساحة}}{\text{المساحة}} = \lambda$$



$$\frac{BN \times BM \times \frac{1}{r} \times \sin B^\circ}{BC \times AB \times \frac{1}{r} \times \sin B^\circ} \rightarrow \frac{BM \times r_n}{\lambda h \times AB} = \frac{1}{r} \rightarrow \frac{BM}{AB} = \frac{Q}{r}$$

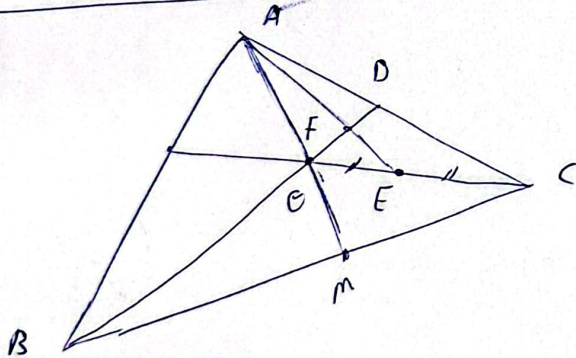
$$\frac{BM}{AM} = \frac{Q}{r}$$



$$r_j = r_n + y \rightarrow r_j = r_n$$

$$\sqrt{ry' + ry' = \omega y = r} \rightarrow y = \frac{r}{\omega}$$

$$(r \times \frac{r}{\omega})^r = \frac{r\omega^r}{r\omega}$$



$$AG = \frac{r}{r} GM = \frac{r}{r} AM$$

$$AD = \frac{r}{r} GP$$

$$FD = \frac{r}{r} ED$$

$$\Rightarrow FD = \frac{1}{r} \times (\frac{1}{r} BD) \rightarrow \frac{BD}{FD} = r$$