

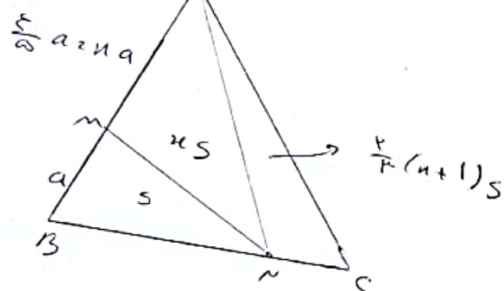
مساحت مثلث  
مساحت مثلث کوچکتر

$$(r_n)^2 = n^2 + (\text{ضلع})^2 \rightarrow r_n^2 - n^2 = (\text{ضلع})^2 \rightarrow r_n^2 (\text{ضلع})^2 \rightarrow \sqrt{r_n^2 - n^2}$$

$$\text{مثلث} \rightarrow (\sqrt{2})^2 = (r_n + n)^2 + (\sqrt{3}n)^2 = r_n^2 + 2nr_n + n^2 + 3n^2 = r_n^2 + 2nr_n + 4n^2 \rightarrow \text{مثلث} \rightarrow \sqrt{r_n^2 + 2nr_n + 4n^2}$$

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$$\frac{(r_n \sqrt{3})(r_n)}{\frac{1}{2}(K)(\sqrt{3}n)} = \sqrt{2}$$



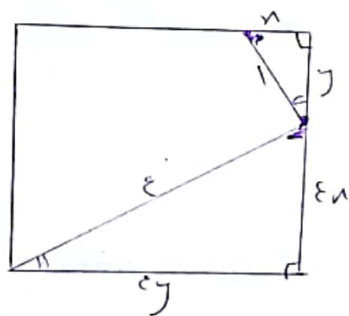
$$\Rightarrow S + nS + \frac{r}{n}(n+1)S = rS$$

$$S(\frac{r}{n}n + \frac{r}{n}) = rS$$

$$n+1 = \frac{r}{n}$$

$$n = \frac{r}{2}$$

$$\Rightarrow \frac{PM}{AM} = \frac{q}{\frac{r}{2}a} = \frac{2q}{ra}$$

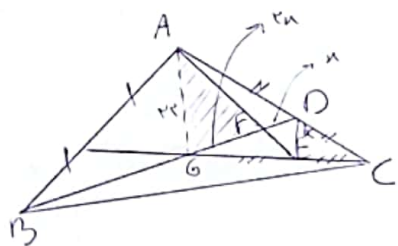


$$e^2 = e_n^2 + y^2 \rightarrow e^2 = e_n^2$$

$$e^2 = (e_y)^2 + (r_y)^2 \rightarrow 14 = 16y^2 + 9y^2 \rightarrow 14 = 25y^2 \rightarrow y = \frac{14}{25}$$

$$y = \frac{14}{25} \rightarrow e = \frac{r}{25}$$

$$\text{مثلث} = e_y = e(\frac{r}{25}) = \frac{14}{25} \Rightarrow S = \frac{r \cdot 14}{25}$$



$$\frac{DE}{GA} = \frac{CE}{CG} = \frac{1}{2} \Rightarrow \triangle GFA \sim \triangle DFE \rightarrow \frac{DF}{GF} = \frac{1}{2}$$

(DE || GA)  
 $\begin{pmatrix} \angle GFA \\ \angle DFE \end{pmatrix} \rightarrow \hat{A}_1 = \hat{E}_1, \hat{G}_1 = \hat{D}_1$

$$\frac{BD}{FD} = 9$$

$$\text{مثلث} \rightarrow DB \rightarrow \frac{BG}{GD} = 2 \rightarrow GD = 2n$$

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