

$$BH \parallel BC \xrightarrow{\text{by } BD} D, = \alpha = \epsilon \delta^1$$

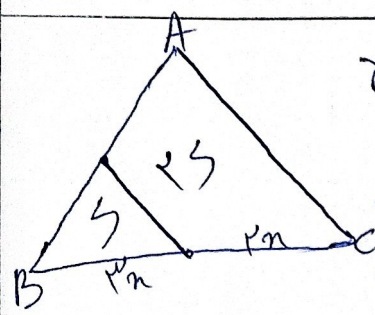
$$BH \parallel BC \rightarrow \frac{AE + \delta/\delta}{AE + 11} = \frac{\delta/\delta}{1}$$

$$1 \text{ } AE - \delta/\delta AE = \frac{11}{2} - 11 \rightarrow 1/\delta AE = 14/\delta \rightarrow AE = 9.7$$

$$AFB \sim ADH \rightarrow \frac{BF}{n} = \frac{r_n}{DH} \rightarrow \boxed{BF = DH}$$

$$\Rightarrow BF^r = r_n^r \rightarrow BF = DH = \sqrt{r} n$$

$$\Rightarrow \left\{ \begin{array}{l} S_{ABCD} = (\sqrt{r} n) \times (r n) = (r \sqrt{r}) (r n^2) = r \sqrt{r} n^2 \\ S_{AHD} = \frac{1}{2} \sqrt{r} n (n) = \frac{1}{2} \sqrt{r} n^2 \end{array} \right. \Rightarrow \text{N.N.P.}$$

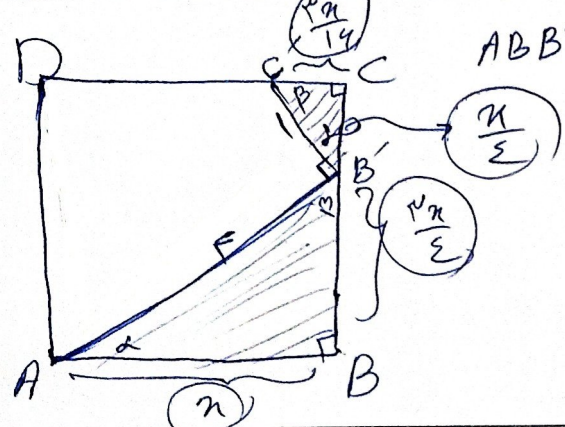


$$\delta h \cdot \delta n = r s \rightarrow r \delta n \cdot h = 45 \rightarrow n \cdot h = \frac{45}{r \delta}$$

$$S_{MBN} = \frac{r n \cdot y}{r} = s \rightarrow n \cdot h = \frac{r s}{r y}$$

$$9 \times y = r \delta \rightarrow y = \frac{r \delta}{9}$$

$$\left\{ \begin{array}{l} \delta h = \frac{\epsilon \delta}{9} \\ BM = \frac{r \delta}{9} \end{array} \right. \rightarrow AB \text{ ? } \rightarrow \frac{\epsilon \delta}{9} - \frac{r \delta}{9} = \frac{r}{9} AM \quad \frac{BM}{AM} = \frac{\frac{r \delta}{9}}{\frac{r}{9}} = \frac{\delta}{\epsilon}$$



$$ABB' \sim B'CC' \rightarrow \frac{B'C'}{AB'} = \frac{CC'}{BB'} = \frac{CB'}{AB} = \frac{1}{\epsilon}$$

$$n^r + \frac{9}{14} n^r = 14 \rightarrow \frac{r \delta}{14} n^r = 14 \rightarrow n^r = \frac{14 \times 14}{r \delta}$$

$$\rightarrow n = \frac{14}{\delta} \Rightarrow S = n^r = 10.12$$

$$\frac{BG}{GD} = \frac{r n}{n} = r$$

$$FG = FD \rightarrow y = \frac{n}{r}$$

$$\left\{ \begin{array}{l} FD = \frac{n}{r} \\ BD = r n \end{array} \right. \rightarrow \frac{BD}{FD} = \frac{r n}{\frac{n}{r}} = 4$$