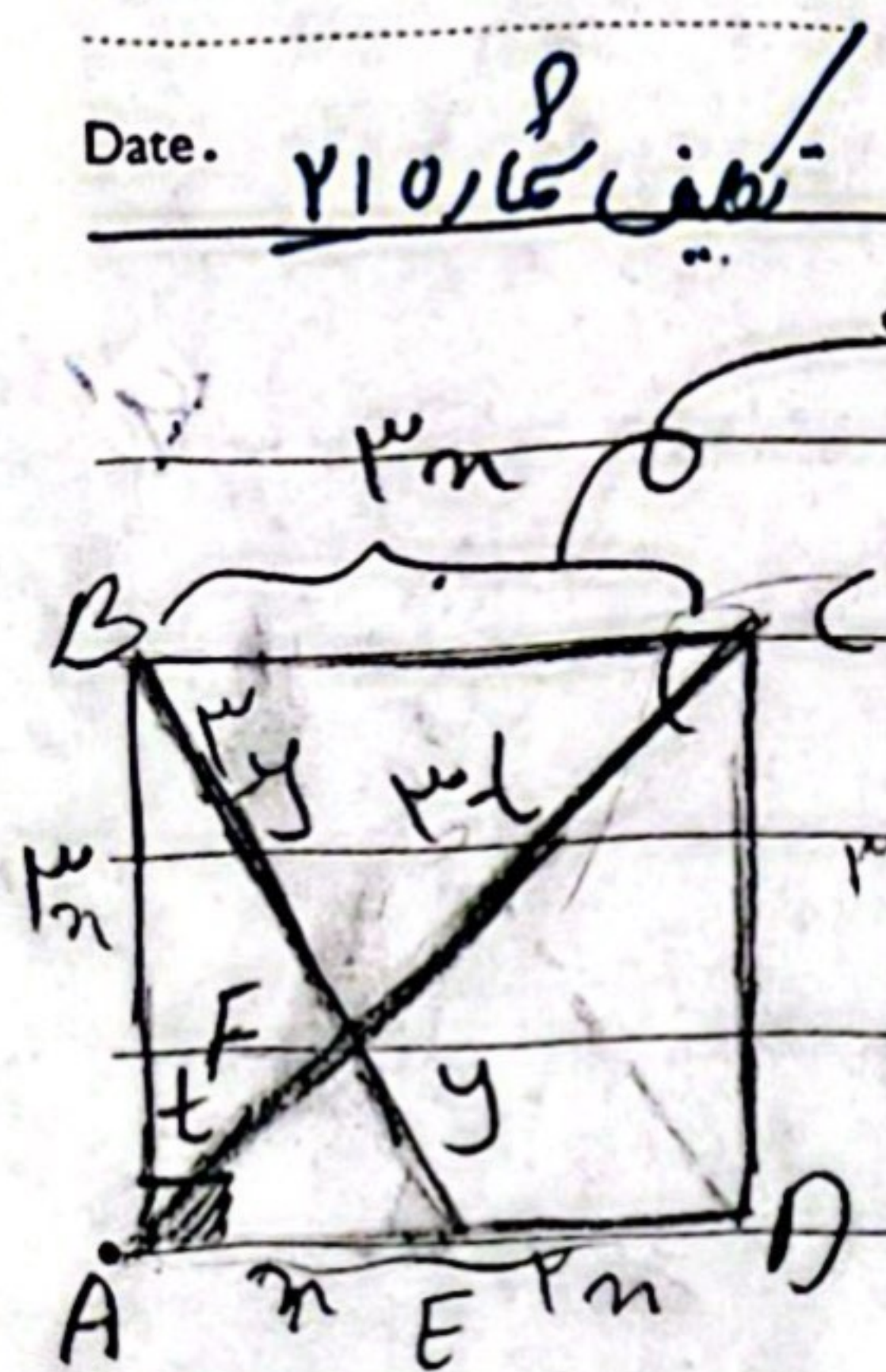


No.

Date.

$$t = AF$$

سوال ۵ و ۶ و ۷ جابجاست ۱۹، ۵



$$ED = 3AE$$

$$y = EF$$

$$\Rightarrow \frac{EF}{AF} = \frac{\sqrt{10}}{3} \Rightarrow \frac{y}{t} = \frac{\sqrt{10}}{3}$$

$$\textcircled{1} AC^2 = AD^2 + CD^2 \Rightarrow 9n^2 + 9n^2 = 14n^2$$

$$\Rightarrow AC = 3\sqrt{2}n \Rightarrow \Sigma t = 3\sqrt{2}n$$

$$\textcircled{2} \Rightarrow BE^2 = AB^2 + AE^2$$

$$\Rightarrow 9n^2 + n^2 = 10n^2 \Rightarrow BE = \sqrt{10}n \Rightarrow \Sigma y = \sqrt{10}n \Rightarrow y = \frac{\sqrt{10}}{2}n$$

$$\left. \begin{array}{l} \hat{A} \hat{E} D = \hat{A} \hat{C} B \\ \hat{A} = \hat{A} \end{array} \right\} \Rightarrow \triangle ADE \sim \triangle ABC$$

$$\Rightarrow \frac{n}{10} = \frac{y}{n+1} \Rightarrow n^2 + n = 10y$$

$$n(n+1) = 10y \Rightarrow n = 10$$

$$n^2 + n - 10y = (n+5)(n-10) = 0 \Rightarrow n = -5 \text{ or } n = 10$$

$$\left. \begin{array}{l} \hat{H}_1 = \hat{H}_2 \\ \hat{E}_1 = \hat{F}_1 \\ \hat{D} = \hat{C} \end{array} \right\} \Rightarrow \triangle ADE \sim \triangle ABC$$

$$DE \parallel BC$$

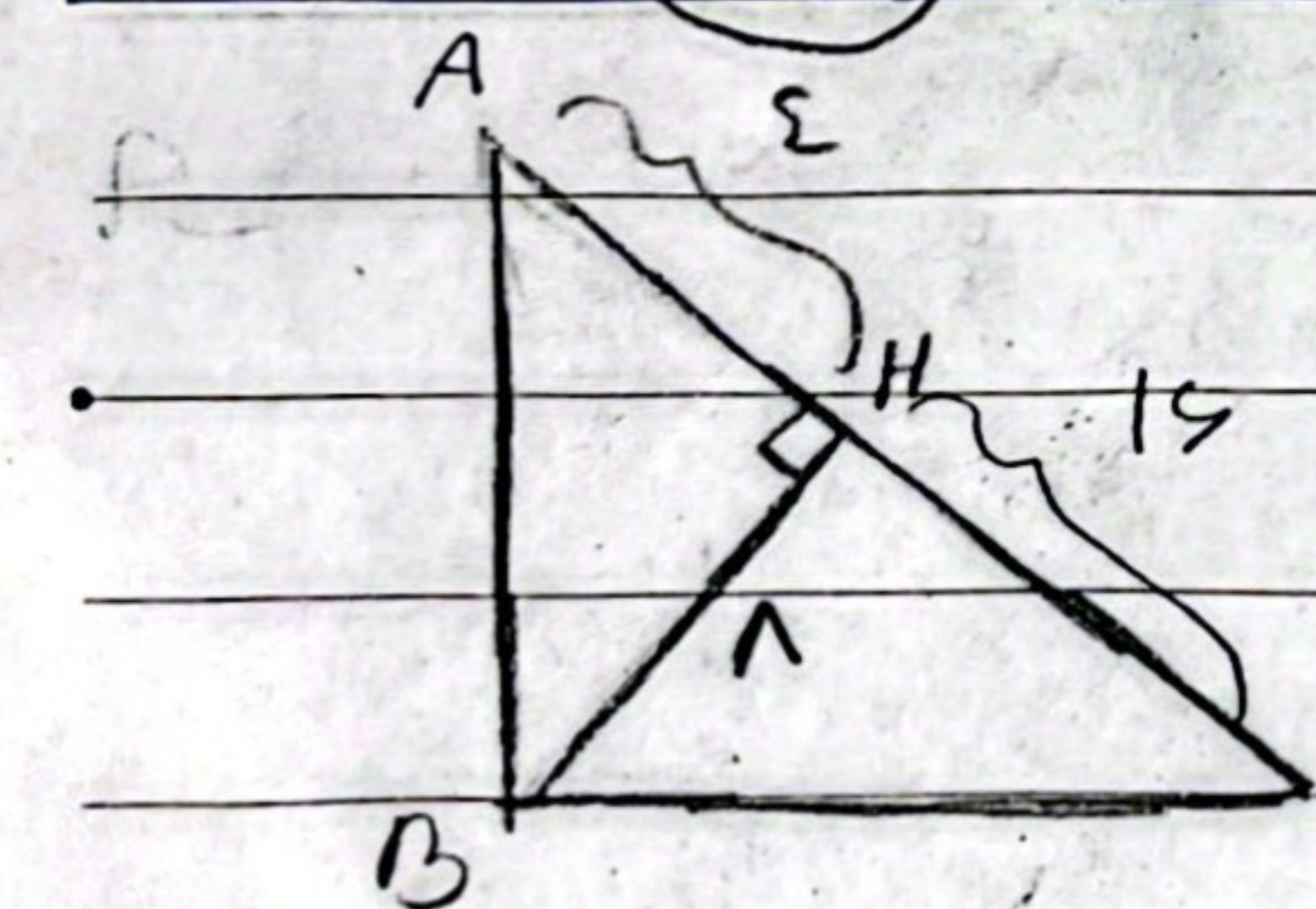
$$y = 10n \quad BF = 10 - y$$

$$y = \frac{10}{3}n$$

$$10y = \frac{10}{3}y \Rightarrow \frac{10}{3} \times \frac{10}{3} = 10n$$

$$\Rightarrow DE \parallel BC \Rightarrow \frac{n}{10} = \frac{DE}{BC} \Rightarrow 10DE = BC$$

$$\star \Rightarrow DE = \frac{n}{10} = \frac{10}{3} \Rightarrow \frac{10}{3}BC - 10 = 10DE$$



$$\textcircled{1} \Rightarrow AH \times HC = BH^2 \Rightarrow 8 \times 6 = 8^2 \Rightarrow BH = 8$$

$$AB^2 = BH^2 + AH^2 \Rightarrow 14^2 + 8^2 = 10^2 \Rightarrow AB = \sqrt{10}$$

$$\Rightarrow AB = \sqrt{10}$$

$$AB^2 = 14 \times 10$$

$$CD^2 = 14 \times 10$$

$$\frac{CB}{AB} = \sqrt{\frac{14 \times 10}{14 \times 10}} \Rightarrow BC = \sqrt{10} \quad \textcircled{1, 0}$$

$$\hat{B}_1 = \hat{B}_2$$

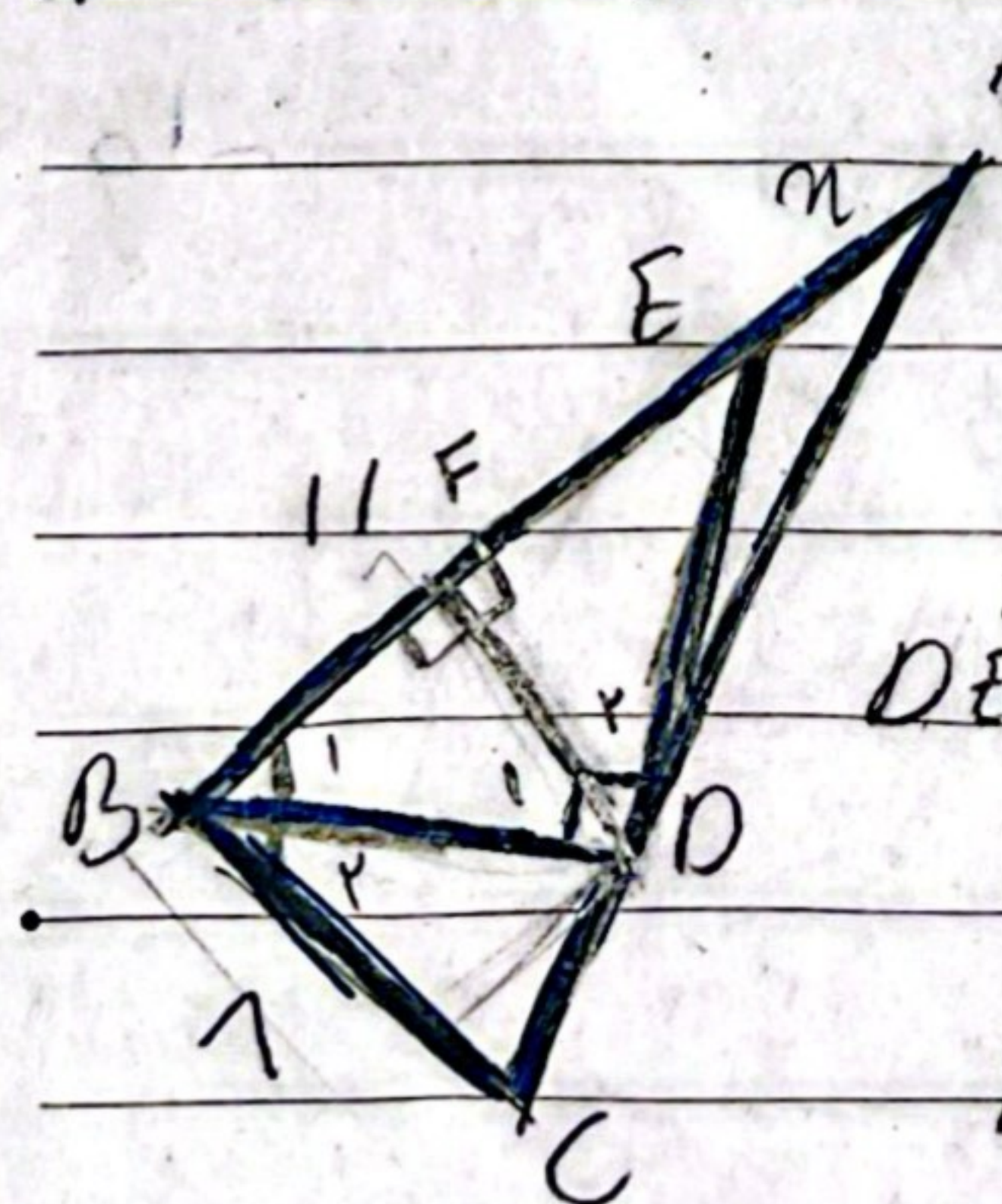
$$FD \parallel BC \Rightarrow \hat{D}_1 = \hat{B}_2 \Rightarrow \hat{D}_1 = \hat{B}_1 \Rightarrow FB = FD$$

$$\hat{F} = 90^\circ \Rightarrow \hat{B}_1 = \hat{D}_1 = 90^\circ \Rightarrow \hat{B} = 90^\circ$$

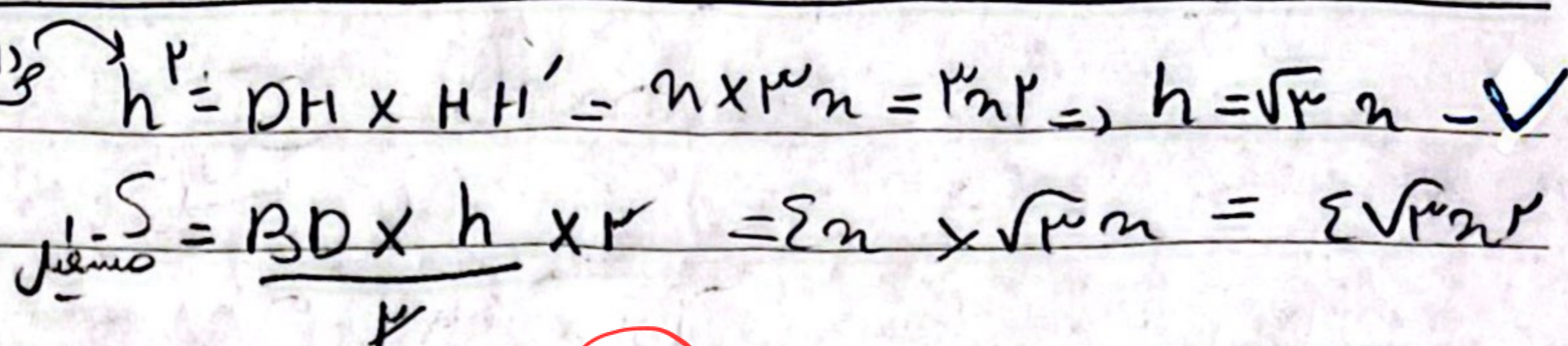
$$\triangle DEB : \hat{F} = 90^\circ \Rightarrow FB \times FE = FD^2 \Rightarrow FB = FD \Rightarrow FB = FE$$

$$\Rightarrow FE + FB = 11 \Rightarrow FE = 11 = FD$$

$$FD \parallel BC \Rightarrow \frac{n+11}{10} = \frac{FD}{BC} = \frac{11}{10} \Rightarrow 10n + 11 = 11n + 11 \Rightarrow n = 0$$



$$\Rightarrow n = \frac{11}{10} = \frac{9}{4}$$



$$\sigma = \frac{\sqrt{r_{n \times n}}}{\sqrt{r_{n \times n}}} = \sqrt{r_{n \times n}}$$

$$\frac{I_S}{\text{max kls } S} = \frac{\epsilon \sqrt{x}}{\sqrt{x}} = 1$$

