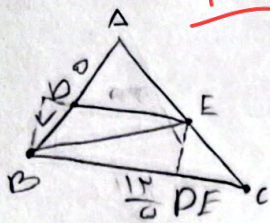
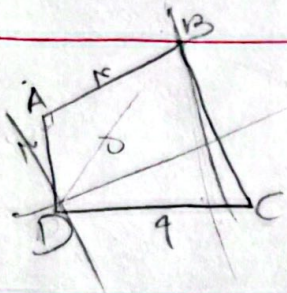


(کریجی وحید) (گروہ A)



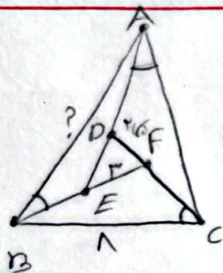
$$\frac{9}{12} = \frac{DE}{BC} \rightarrow ABC = 12 DE$$

$$\frac{S_{BDE} = 2 \times DE}{S_{BCE} = 2 \times \frac{12}{5} DE} \Rightarrow \frac{S_{BCE}}{S_{BDE}} = \left(\frac{12}{5} \right) \checkmark$$



تجربہ تیرہ ۱۴۳۰ داخل

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$$\frac{AB}{AF} = \frac{BC}{FE} = \frac{AC}{AE} = k_1$$

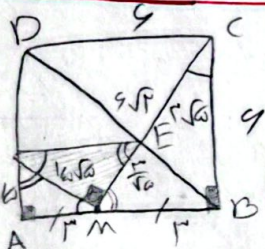
$$\frac{AB}{BD} = \frac{BC}{DF} = \frac{AC}{BF} = k_2$$

$$\frac{AB}{CE} = \frac{BC}{EF} = \frac{AC}{CF} = k_3$$

$$DF = 21\omega, EF = 2 \rightarrow k_2 = \frac{BC}{DF} = \frac{BC}{21\omega}$$

$$k_3 = \frac{BC}{EF} = \frac{BC}{2}$$

$$AB^2 = 21\omega \times 2 \rightarrow AB = \sqrt{42\omega}$$

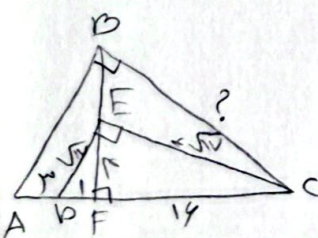


$$\frac{2}{1\omega\sqrt{\omega}} = \frac{2}{\sqrt{\omega}} \rightarrow 1\omega \times \frac{2}{\sqrt{\omega}} = \frac{2}{\sqrt{\omega}} \rightarrow \frac{S}{\omega} = \frac{1\omega \times \frac{2}{\sqrt{\omega}}}{2} = \frac{4\omega}{2\sqrt{\omega}} = \frac{2\omega}{\sqrt{\omega}}$$

$$\frac{2\omega}{\sqrt{\omega}} = 2\sqrt{\omega} \rightarrow \omega = 1\omega \times \frac{2}{\sqrt{\omega}} = \frac{2}{\sqrt{\omega}} \rightarrow \omega = \frac{4}{\sqrt{\omega}} \rightarrow \omega^2 = 4 \rightarrow \omega = 2$$

ریاضہ اردو سہ ماہیہ ۱۴۳۰ داخل

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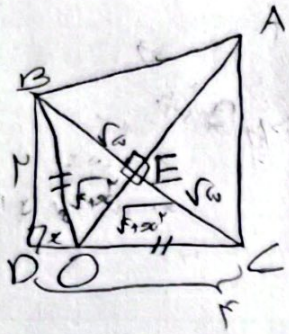
$$1^2 + 4^2 = \sqrt{17}$$

$$4 \times 14 = BF^2 \Rightarrow 56 = BF^2 \rightarrow BF = 1 \rightarrow 14^2 + 1^2 = \sqrt{196 + 1} = \sqrt{197} \Rightarrow \sqrt{197}$$

$$\sqrt{1^2 + 1^2} = 1\sqrt{2}$$

$$m = \frac{1}{2} \sqrt{2b^2 + 2c^2 - a^2} \Rightarrow m = \frac{1}{2} \sqrt{2(14)^2 + 2(1\sqrt{2})^2 - (1\sqrt{2})^2} \rightarrow m = \frac{1}{2} \sqrt{392 + 2 - 2} = \frac{1}{2} \sqrt{392} = \sqrt{98} = 7\sqrt{2} \checkmark$$

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$$\angle COE = \angle BOE$$

$$14 + 12 = 26 \rightarrow \sqrt{26} = BC \rightarrow \frac{2\sqrt{26}}{2} = \sqrt{26} = EC = BE$$

$$\sqrt{12^2 + x^2}$$

$$\sqrt{12^2 + x^2} = 14 - x$$

$$12^2 + x^2 = (14 - x)^2 \rightarrow 12^2 = 14^2 - 28x + x^2 \rightarrow 12^2 = 14^2 - 28x$$

$$x = \frac{14}{7}$$

$$\frac{1}{2} \times AC \times CD = \frac{1}{2} \times 26 \times 12 = 156$$

$$ABE = 156 - 156 = 0 \quad \checkmark$$

(7) - 1

$$AB^2 = AC^2 + BC^2 = 12^2 + 14^2 = 14 + 11 = 25$$

$$AB = 5\sqrt{10}, \quad BD = BC = \frac{14}{5\sqrt{10}} = \frac{11}{5\sqrt{10}} \rightarrow \cos B = \frac{BC}{AB} = \frac{BE}{BD}$$

$$BE = \frac{14 \times \frac{11}{5\sqrt{10}}}{\frac{14}{5\sqrt{10}}} = \frac{11}{5} = 2.2 \quad \checkmark$$

(7) - 9

$$AC = \sqrt{12^2 + 14^2} = 26 \quad \checkmark$$

$$14^2 = AH \times 26 \Rightarrow 196 = AH \times 26 \rightarrow AH = 7.5 \quad \checkmark$$

$$AE = \frac{AH}{7} = \frac{7.5}{7} = 1.07 \quad \checkmark \rightarrow \frac{DE}{BC} = \frac{AE}{AB} \rightarrow \frac{DE}{12} = \frac{1.07}{14} \rightarrow DE = \frac{12 \times 1.07}{14} = 0.91 \quad \checkmark$$

(1) - 10

$$S_{ABC} = \frac{AB \times BC}{2} = \frac{BH \times AC}{2} \rightarrow 14 \times 12 = BH \times 26 \rightarrow BH = 6.5 \quad \checkmark$$

$$\triangle ADE \sim \triangle ABH \rightarrow \frac{DE}{BH} = \frac{AE}{AB} \rightarrow \frac{DE}{6.5} = \frac{1.07}{14} \rightarrow DE = 0.48 \quad \checkmark$$