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عرفان حقیقی یازدهم سر A

$$\frac{AE}{EC} = \frac{AD}{AB} = \frac{\omega}{V}$$

(1) (2)

$$\frac{S_{BDE}}{S_{ADE}} = \frac{BD}{AD} = \frac{V}{\omega} \Rightarrow S_{BDE} = \frac{V}{\omega} S_{ADE}$$

$$S_{BDE} = S_{CDE} \text{ (قاعده ارتفاع)} \quad S_{BCE} = S_{CDE} + S_{BCD}$$

$$\frac{DE}{BC} = \frac{AD}{AB} = \frac{\omega}{V+\omega} = \frac{\omega}{12} \Rightarrow \frac{S_{BCE}}{S_{BDE}} = \frac{S_{BCE}}{S_{CDE}}$$

$$\frac{S_{BCE}}{S_{BDE}} = \frac{BC}{DE} = \frac{12}{4} = 3 \quad \checkmark$$

(2) نقطه D، ابتدا مختصات در نظر می گیریم
 $A = (0, 3)$ و $B = (4, 3)$
 $M = (2, 0)$ و $C = (9, 0)$

$$N = BC \text{ وسط } = (4, \omega) \text{ و } (1, \omega) \Rightarrow MN = \sqrt{(4, \omega - 2)^2 + (1, \omega - 0)^2}$$

$$MN = \sqrt{(2, \omega)^2 + (1, \omega)^2} = \sqrt{5\omega}$$

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جواب

تجربه نیر ۱۴۰۳ داخل

✓

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subject :

زوایای D ، F و E خارجیانه

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①



$$DE = DF + FE$$

~~$$\frac{AB}{DE} = \frac{BC}{EF} \Rightarrow \frac{AB}{BC} = \frac{DE}{EF}$$~~

$$AB = \frac{P}{N}$$

16

0

.....

4 =



$$M = (r^{\mu}_{\alpha}) \text{ , } E = (1, r^{\mu}_{\alpha})$$

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مضامین اردو حصہ ۱۴۳ داخل

جواب

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$$\begin{cases} n=3 \\ n=5 \end{cases}$$

جواب

دایره ای در بیضی ۱۴.۳ داخل

$$ABE = AE = 11 + n$$

$$\frac{DC}{\sin(\hat{D}\hat{A})} = \frac{AD}{\sin(\hat{A}\hat{D})}$$

$$ABD = AD = 11 + (n+1)$$

$$n^2 + 1 \cdot n - 11 = 0$$

$$DC = \frac{-1 + \sqrt{1 + 44}}{2} = \frac{-1 + 7}{2} = 3$$

$$ED^2 = EF^2 + DF^2 \Rightarrow ED^2 = 4^2 + 1^2 \Rightarrow ED = \sqrt{17}/4$$

(1)

$$EF = DF \times FC \Rightarrow 14 = FC$$

$$(BC)^2 = FC \times AC \Rightarrow (BC)^2 = 14 \times 20 \Rightarrow BC = \boxed{10\sqrt{2}}$$

$$CD = DF + FC = 1 + 14 = 15 \quad AC = AD + DF + FC = 11 + 1 + 14 = 26$$

$$\frac{BC}{ED} = \frac{AC}{CD} \Rightarrow \frac{BC}{\sqrt{17}} = \frac{26}{15} \Rightarrow BC = \frac{26 \times \sqrt{17}}{15}$$

$$AM = \frac{14}{2} = 7 \quad AB = \sqrt{7^2 + 7^2} = 7\sqrt{2}$$

$$m_c = \frac{1}{2} \sqrt{a^2 + b^2 - c^2} \Rightarrow m_c = \frac{1}{2} \sqrt{12^2 + 20^2 - 16^2}$$

(2)

$$m_c = 10\sqrt{2}$$

✓

$$\text{في المثلث } \rightarrow BC = 2\sqrt{5}$$

$$BE = EC = \sqrt{5}$$

$$\triangle AEC \sim \triangle BCD \rightarrow \frac{2}{\sqrt{5}} = \frac{r}{AE} \rightarrow AE = 2\sqrt{5}$$

$$\rightarrow S = \frac{1}{2} AE \times BE = 5$$

-A

$$AC = BD = r \leftarrow \text{وسط } O \text{ و } AC \parallel BD$$

مساحة $\triangle ABC = \frac{1}{2} \times r \times r = r^2$

نقطه E مثلث ABC بر وتر AC و $BD = r$ $AC = r$ $\rightarrow$ $BE = EC = \frac{r}{2}$

$$S_{ABE} = \frac{S_{ABCD}}{4} = \frac{1}{4} = 0.25$$

$$AB = \sqrt{r^2 + r^2} = r\sqrt{2} \quad BC = BD \times AB$$

$$r = BD \times r\sqrt{2} \Rightarrow 1 = BD \times r\sqrt{2}$$

$$BD = \frac{1}{r\sqrt{2}} = \frac{1}{\sqrt{2}} \quad \frac{BE}{BC} = \frac{BD}{AB}$$

$$\frac{BE}{r} = \frac{1}{r\sqrt{2}} \Rightarrow \frac{1}{r} = \frac{1}{\sqrt{2}} \quad BE = r \times \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

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$$AC = \sqrt{12^2 + 12^2} = 12\sqrt{2} \quad AB = AH \times AC$$

$$12\sqrt{2} = AH \times 12\sqrt{2} \Rightarrow 12\sqrt{2} = AH \times 12\sqrt{2} \quad AH = \frac{12\sqrt{2}}{12\sqrt{2}} = 1\sqrt{2} \checkmark$$

$$AE = \frac{AH}{r} = \frac{1\sqrt{2}}{12} = \frac{1}{12}\sqrt{2} \quad \frac{DE}{BC} = \frac{AE}{AB}$$

$$\frac{DE}{12} = \frac{\frac{1}{12}\sqrt{2}}{12\sqrt{2}} \quad DE = \frac{12 \times \frac{1}{12}\sqrt{2}}{12\sqrt{2}} \quad DE = \frac{1\sqrt{2}}{12} = \frac{1}{12}\sqrt{2} \checkmark$$

$$\text{circunferência} \rightarrow AC = r_0$$

$$S_{ABC} = \frac{AB \times BC}{2} = \frac{BH \times AC}{2} \rightarrow 12 \times 12\sqrt{2} = BH \times 12\sqrt{2} \rightarrow BH = 9,4$$

$$\triangle ABC, (12\sqrt{2})^2 = AH \times 12\sqrt{2} \rightarrow AH = 1\sqrt{2} \rightarrow AE = \frac{AH}{r} = \frac{1}{12}\sqrt{2}$$

$$\triangle ADE \sim \triangle ABH \rightarrow \frac{DE}{BH} = \frac{AE}{12} \rightarrow \frac{DE}{9,4} = \frac{\frac{1}{12}\sqrt{2}}{12\sqrt{2}} \rightarrow DE = \frac{1}{12}\sqrt{2}$$

V