

عرفان حقیقی یازدهم سر A

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

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

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

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

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

(۲) نقطه D، ابتدا مختصات در نظر می گیریم
 $A = (0, 3)$ و $B = (4, 3)$
 $M = (2, 0)$ و $C = (9, 1)$

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

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

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$$\hat{BCD} = \hat{CAE} = \hat{ABF} = a$$

$$\hat{DEF} = \hat{FBC} + \hat{FCB} = (\hat{B} - a) + a = \hat{B}$$

$$\hat{DEF} = \hat{C}, \hat{EDF} = \hat{A} \Rightarrow \triangle DEF \sim \triangle ABC$$

$$\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF} \quad DE = DF + FE$$

$$\frac{BC}{EF} = \frac{AC}{DF} \quad \frac{AB}{DF} = \frac{BC}{EF} \Rightarrow \frac{AB}{DF} = \frac{AC}{DF}$$

$$\frac{AB}{DF} = \frac{AC}{DF} \Rightarrow \frac{AB}{DF} = \frac{AC}{DF} \Rightarrow AB = AC$$

$$M = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} D = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}, C = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}, B = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \Rightarrow \text{ماتريك } A$$

$$DM = \frac{-4}{1} = -4 \quad y = -4x + 4$$

$$y = \frac{1}{1}x + 4 : ((1, 4) \text{ نقطة } DM \text{ و } (1, 4) \text{ نقطة } E)$$

$$-4x + 4 = \frac{1}{1}x + 4 \Rightarrow -4x = x \Rightarrow x = 0 \Rightarrow y = 4$$

$$S = \frac{1}{1} \cdot \frac{1}{1} \cdot 1, 2, 3, 4 \cdot 1, 2, 3, 4$$

$$M = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \text{ و } E = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

$$F = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

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$$ABE = AE^r = 11^r + n^r$$

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

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

$$n^r + 1 \cdot n - 11 = 1$$

$$DC = \frac{-1 + \sqrt{1+14}}{1} \approx 1.1$$

$$ED^r = EF^r + DF^r \Rightarrow ED^r = r^r + 1^r \Rightarrow ED = \sqrt{14}/4$$

$$EF^r = DF + FC \Rightarrow 14 = FC$$

$$CD = DF + FC = 1 + 14 = 15$$

$$AC = AD + DF + FC = r$$

$$\frac{BC}{ED} = \frac{AC}{CD} \Rightarrow \frac{BC}{\sqrt{14}} = \frac{r}{15}$$

$$\frac{BC}{\sqrt{14}} = \frac{r}{15}$$

$$BC = \frac{r \cdot \sqrt{14}}{15} = \frac{r}{\sqrt{14}}$$

$$AM = \frac{14}{r} = 1$$

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

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

$$m_c = \sqrt{5}$$

W

$$AC = BD = 2 \leftarrow AB \text{ وسط } O \text{ و } AC \parallel BD \quad (1)$$

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

$BD = 2 \quad AC = 2$ نقطة E على BD تقاطع AC ونقطة

$$S_{ABE} = \frac{S_{ABCD}}{2} = \frac{4}{2} = 2$$

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

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

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

$$\frac{DE}{2} = \frac{\frac{\sqrt{2}}{2}}{2\sqrt{2}} \Rightarrow \frac{9}{1} \quad BE = 2 \times \frac{2}{1} = \frac{4}{1}$$

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$$AC = \sqrt{12^2 + 12^2} = 17. \quad AB' = AH \times AC$$

$$12^2 = AH \times 17. \Rightarrow 17AH = 144. \quad AH = \frac{144}{17} = 8.47$$

$$AE = \frac{AH}{17} = \frac{8.47}{17} = 0.5 \quad \frac{DE}{BC} = \frac{AE}{AB}$$

$$\frac{DE}{17} = \frac{0.5}{12} \quad DE = \frac{17 \times 0.5}{12} \quad DE = \frac{8.5}{12} = 0.71$$

V