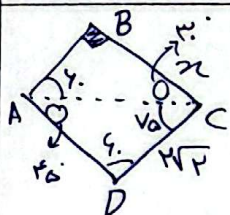


$$\frac{v}{\sin A} = \frac{v \cdot \sqrt{5}}{\sin B} \Rightarrow \frac{v \cdot \sqrt{5}}{\sin B} = \frac{r}{\sqrt{r}} \Rightarrow \frac{\sqrt{r}}{r} = \sin B$$

$\hat{B} = r\omega$
 $C = v\omega$

1



$$x = AC \times \sinh y = \frac{\sqrt{\mu}}{\gamma} AC \Rightarrow \frac{\gamma \sqrt{\mu}}{\sinh y} = \frac{AC}{\sinh y} \Rightarrow \frac{\sqrt{\mu}}{\gamma} = \frac{AC}{\sinh y}$$

$$AC \times \frac{\sqrt{\mu}}{\gamma} \Rightarrow \frac{\sqrt{\mu}}{\gamma} \times \gamma \sqrt{\mu} = \mu = x$$

2

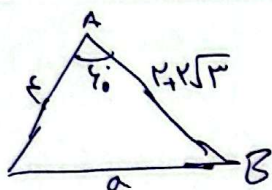
$$\frac{C}{\sin \hat{C}} = \frac{(b^2 - r)}{\sin \hat{B}} \Rightarrow b^2 - r = b \Rightarrow b^2 - b - r \Rightarrow b = r$$

1

$$F_1 + F_0 - 2(F_1)(\cos \hat{B}) = 149 \Rightarrow \frac{444}{F_1} = \cos \hat{B} \Rightarrow \frac{F}{\hat{A}} = \cos \hat{B}$$

$$\frac{2}{3} = 5 \hat{h} B \quad \hookrightarrow$$

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[illegible]

△

$$E = F + 1 - (\sqrt{1 - (c \cdot x)}) \Rightarrow \frac{1}{F} = c \cdot 5A \Rightarrow 14 + 34 - \sqrt{14^2 + 34^2} = 34 = DE$$

$$\underline{DE = 9}$$

6

$$4r + 2w - \sqrt{(r \cdot 1) \left(\frac{1}{r}\right)} = EA = CB \Rightarrow CB = V \quad (\text{الف})$$

$$\omega \times 1 \times \frac{1}{r} \times \sin 45^\circ \Rightarrow \frac{\sqrt{F}}{V} \Rightarrow \underline{1. \sqrt{3}}$$

(ج)

7

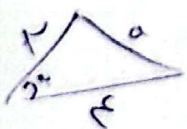
$$\frac{(b+c)^2 - a^2}{bc(c \cdot 5A + 1)} \Rightarrow \frac{b^2 + c^2 + 2bc - (b^2 + c^2 - 2bc \cdot 5A)}{bc(c \cdot 5A + 1)} = \frac{2}{5}$$

8

$$a^2 + b^2 - c^2 = a^2 + b^2 - c^2 \Rightarrow b^2 - c^2 = a^2(b - c) \Rightarrow (b - c)(b^2 + bc + c^2) = b^2 + bc + c^2 = a^2 = b^2 + c^2 - 2bc \cos \hat{A} \Rightarrow \cos \hat{A} = \frac{1}{r}$$

9

$$r - c \cdot 5 + A \cdot c \cdot 5 - \sqrt{c \cdot 5^2} = 1 \Rightarrow -\sqrt{c \cdot 5^2} + 1 \cdot c \cdot 5 - \omega \Rightarrow \sqrt{c \cdot 5^2} = \frac{4}{5} = 1$$



$$\Rightarrow F + 14 - \sqrt{(1) \left(\frac{\sqrt{3}}{r}\right)} = a^2 \Rightarrow \underline{a^2 = r - 1\sqrt{3}}$$

10