

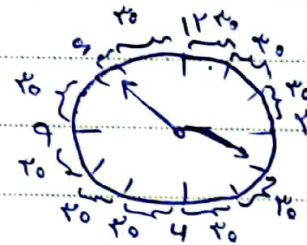
$$r : \omega^2$$

$$r_0 \times \omega = 120$$

$$\omega^2 : r = 2V$$

$$2V \times \omega - \omega^2 = 1$$

$$120 + 2V + \omega = 1103$$



السرعة =  $\omega r$

$$a = | \omega^2 M - r_0 H | = 4 | \underbrace{\omega^2 \times \omega^2}_{29V} - \underbrace{r_0 \times \omega}_{90} | = 4 \times 20V$$

$$r_0 - 20V = 1 \text{ cm}^2$$



$$a = \frac{\pi}{4}$$

$$\frac{\pi}{4} = \frac{\pi}{r}$$

$$\frac{a}{r} R^2$$

$$\frac{\pi}{4} \times \frac{1}{r} \times r = \frac{\pi}{4} = 150$$

$$|AB| = ar = 4 \times \frac{\pi}{4} \times \frac{1}{r} = 4 \times \frac{\pi}{r}$$

$$|AB| = \frac{\pi}{r} \quad \text{مساحة} = 2r + AB = 4 \times \left[ 4 + \frac{\pi}{r} \right]$$

$$\tan(\pi - a) + r \tan(\pi + a)$$

← 9 سوال ✓

$$\tan(\pi - a) - \tan(\pi + a)$$

$$\frac{-\tan a + r \tan a}{-\tan a - + \tan a} = \frac{r \tan a}{-r \tan a} = \boxed{-1}$$

$$\frac{\sin x + \cos x}{\sin x - \cos x} + \frac{\sin x - \cos x}{\sin x + \cos x} = r$$

← 11 سوال ✓

$$\sin^2 x + \cos^2 x + r \sin x \cos x + \sin^2 x + \cos^2 x - r \sin x \cos x$$

$$\sin^2 x - \cos^2 x$$

$$\frac{r}{\sin^2 x - \cos^2 x} = r \quad \frac{r}{1 - r \cos^2 x} = \frac{r}{1}$$

$$\sin^2 x = 1 - \cos^2 x \quad r - r \cos^2 x = r \quad r \cos^2 x = 0$$

$$\sin^2 x = 1 - \frac{1}{4} = \frac{3}{4} \quad r \cos^2 x = \frac{1}{4}$$

$$\tan x = \frac{\sin x}{\cos x} = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \sqrt{3}$$

$$\text{الف) } \cos(x, a)$$

← 10 سوال ✓

$$\cos x = r \cos^2 x - 1$$

$$\cos^2 x = r \cos^2 x - 1$$

$$\cos^2 x = \frac{r}{r}$$

$$r \cos^2 x - 1 = \frac{r}{r}$$

$$r \cos^2 x = \frac{r+r}{r}$$

$$\cos x = \frac{\sqrt{r+r}}{r}$$

$$\text{ب) } \sin(4V, a)$$

$$\cos^2 x = r \cos^2 x - 1$$

$$\sin^2 x = \cos^2 x$$

$$\cos^2 x = r \cos^2 x - 1$$

Arman

$$r = r \cos^2 x - 1$$

$$\cos^2 x = \frac{r+r}{r}$$

$$\cos x = \sin(4V)$$

$$= \frac{\sqrt{r+r}}{r}$$

$$\frac{\sin^2 \alpha - r \cos^2 \alpha + 1}{\sin^2 \alpha + r \cos^2 \alpha - 1} = r \frac{1 - \cos^2 \alpha - r \cos^2 \alpha + 1}{1 + \cos^2 \alpha - 1}$$

سوال 4 ✓

$$\frac{r - r \sin^2 \alpha}{\cos^2 \alpha} = r \cos^2 \alpha = r - r \cos^2 \alpha \quad r \cos^2 \alpha = r - r \cos^2 \alpha$$

$$\cos^2 \alpha = 1 - \sin^2 \alpha \quad -r(1 - \sin^2 \alpha) = r + \sin^2 \alpha$$

$$\frac{r - r + \sin^2 \alpha}{\cos^2 \alpha} = 4 \frac{1 + \sin^2 \alpha}{\cos^2 \alpha} = 4(\tan^2 \alpha) + \frac{1}{\cos^2 \alpha} = 4(\tan^2 \alpha) + (1 + \tan^2 \alpha)$$

$$\frac{\sin^2 \alpha - r \cos^2 \alpha + 1}{\sin^2 \alpha + r \cos^2 \alpha - 1} = 4 \frac{1 - \cos^2 \alpha - \cos^2 \alpha + 1}{1 + \cos^2 \alpha - 1} = 4 \frac{r - r \cos^2 \alpha}{\cos^2 \alpha}$$

$$\frac{r}{\cos^2 \alpha} - \frac{r \cos^2 \alpha}{\cos^2 \alpha} = r \quad \frac{r}{\cos^2 \alpha} = r \quad \frac{1}{\cos^2 \alpha} = \frac{r}{r} \quad \cos^2 \alpha = \frac{r}{r}$$

$$\sin^2 \alpha = 1 - \cos^2 \alpha = 1 - \frac{r}{r} = 0 \quad \tan^2 \alpha = \frac{\sin^2 \alpha}{\cos^2 \alpha} = \frac{0}{1} = 0 \quad \alpha = 0^\circ$$

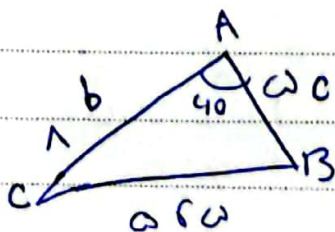
$$\text{ج) } r(10) + r(40) + 9 = \boxed{N}$$



سوال 2 ✓  
9:15

$$\text{ج) } a = |a \omega M - r_0 H| = |a \omega \times 11 - r_0 \times 9| = 9$$

$$|11 \times \frac{11}{1} - r_0 \times 9| = 9 |99 - 11r_0| = 9 \boxed{N}$$



$$\frac{a \times A \times \frac{1}{2} \times \sin 40}{\frac{1}{2} \times \frac{1}{2}} = \boxed{1063} \quad (\text{cell})$$

$$BC = \sqrt{c^2 + b^2 + 2bc \cos 90}$$

$$= 9 \sqrt{r^2 + 4r^2 + 2 \times \frac{1}{2} \times r^2} = 9 \sqrt{10 + r^2} = \boxed{17.5}$$

$$a \omega = 9 \quad \text{then } = \boxed{17 + a \omega}$$

Arman

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$$\tan \frac{\pi}{12} = a$$

$$\frac{\pi}{12} = \frac{1}{12}$$

$$\frac{a}{12} = \frac{1}{12}$$

$$a = 12$$

 $\Leftarrow U \text{ (مس)}$ 

$$\tan 12^\circ = a$$

$$r \tan\left(\frac{\pi}{12} - \frac{12}{12}\right) + \tan\left(\frac{\pi}{12} + \frac{12}{12}\right) + r \cot a + \cot a = 4 \cot a$$

$$r \tan\left(\frac{\pi}{12} - \frac{12}{12}\right) - \tan\left(\frac{\pi}{12} - \frac{12}{12}\right) - r \tan a + \cot a$$

$$\sin a \cos a + \cos a \sin a + r \sin a$$

$$\sin a \cos a + \cos a \sin a + r \sin a$$

$$\sin a \cos a + \cos a \sin a + r \sin a$$

$$\sin a \cos a + \cos a \sin a + r \sin a$$

$$\sin a \cos a + \cos a \sin a + r \sin a$$

$$\sin a \cos a + \cos a \sin a + r \sin a$$

$$\cot 12$$

$$r \tan 12 - \cot 12$$

$$\frac{1}{a} = 4 - r a^2 - 1$$

$$r a - \frac{1}{a}$$

$$-r a^2 - 1$$

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$$B+C=120$$

$$=4\hat{A}=70 \quad AC=10\sqrt{2} \quad BC=10$$

$$B+C=90$$

$$C=100-B$$

$$C=100-(B_1+B_r)$$

$$C=90-B_r$$

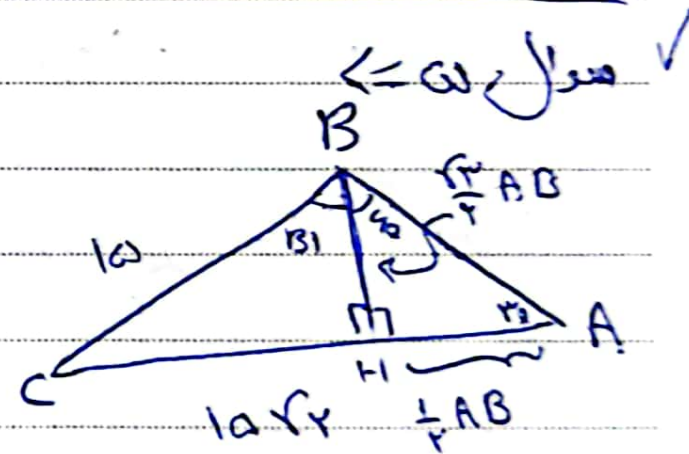
$$\frac{AC}{\sin B} = \frac{BC}{\sin A} \quad \frac{10\sqrt{2}}{\sin B} = \frac{10}{\frac{1}{2}} = 4 \sin B = \frac{\sqrt{2}}{2} \quad B=45^\circ$$

$$120-45=75^\circ$$

$$\boxed{A=75^\circ = \frac{\pi}{4}}$$

$$B=$$

$$\boxed{100=C=V\frac{\pi}{4}}$$



Arman