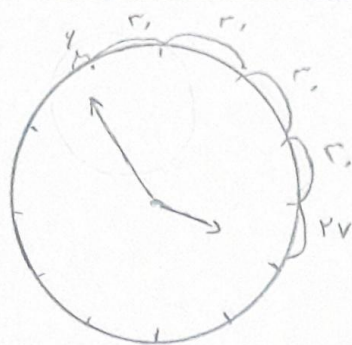


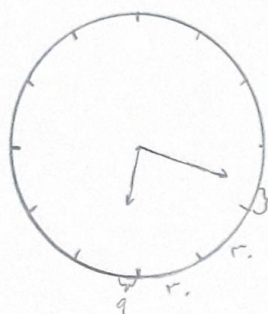


$$\frac{r \times r}{r} + r + 2r = 10r$$

$$3r - 10r = 2.7$$

$$|\omega/\omega \times \omega^2 - 3 \times r| = 2.7$$

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$$r, r, r + 9 = 11$$

$$|11 \times \omega/\omega - 3 \times r| = 11$$

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

$$r + r + \frac{\pi}{r} = 4 + 0.0\pi$$

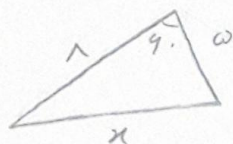
$$\left(\frac{\pi}{4} \times (r)^2 = \frac{r\pi}{r} \right)$$

(الف)

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$$\frac{1}{r} \times \omega \times \omega \times \sin \phi = \omega \times \omega \times \frac{\sqrt{r}}{r} = 1. \sqrt{r}$$

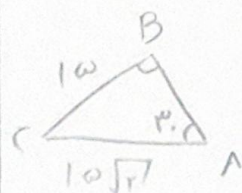
(الف)



$$x = \sqrt{(1)^2 + (1)^2 - 2 \times 1 \times 1 \times \frac{1}{r}} = \sqrt{r^2} = r$$

(الف)

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$$\frac{1}{r} = \frac{1 \times \sqrt{r}}{\sin \beta} \Rightarrow \sin \beta = \frac{\sqrt{r}}{r} \Rightarrow \beta = r\omega$$

$$1 \cdot \omega - r\omega = 1 \cdot \omega = c$$

۵

$$\frac{-\tan a + r \tan a}{\tan(\pi - a) + r \tan(\pi + a)} = \frac{r \tan a}{r \tan a} = -1$$

$$\frac{\tan(r\pi - a) - \tan(r\pi + a)}{-\tan a + \tan a} = -r \tan a$$

8

$$\frac{\pi}{12} = 10^\circ = a$$

$$\frac{r \tan(a - a) + \tan(a + a)}{r \tan(11 - a) - \tan(r\pi - a)} = \frac{r \cot a - \cot a}{-r \tan a - \cot a} = \frac{\frac{1}{\tan a}}{\frac{-r \tan^2 a - 1}{\tan a}} = \frac{1}{-r \tan^2 a - 1}$$

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$$\frac{\sin x + \cos x}{\sin x - \cos x} + \frac{\sin x - \cos x}{\sin x + \cos x} = \frac{(\sin x + \cos x)^2 + (\sin x - \cos x)^2}{\sin^2 x - \cos^2 x} = \frac{r(\sin^2 x + \cos^2 x)}{\sin^2 x - \cos^2 x} = \frac{r}{\sin^2 x - \cos^2 x} = 0$$

$$\frac{r}{r} = \sin^2 x - \cos^2 x \Rightarrow \frac{r}{r} = \sin^2 x - (1 - \sin^2 x) \Rightarrow \frac{r}{r} = r \sin^2 x - 1 \Rightarrow \sin^2 x = \frac{0}{r} \Rightarrow \sin x = \pm \sqrt{\frac{0}{r}} \Rightarrow \cos x = \pm \sqrt{\frac{1}{r}}$$

$$\tan x = \frac{\sin x}{\cos x} = \frac{\frac{0}{r}}{\frac{1}{r}} = 0$$

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

$$\Rightarrow r \tan^2 x = 0 \Rightarrow \tan x = \sqrt{\frac{0}{r}}$$

11

$$\cos^2 \frac{r\pi}{\omega} = \frac{1 + \cos r\pi}{r} = \frac{1 + \frac{\sqrt{r}}{r}}{r} \Rightarrow \cos \frac{r\pi}{\omega} = \sqrt{\frac{1 + \frac{\sqrt{r}}{r}}{r}} = \frac{\sqrt{r + \sqrt{r}}}{r}$$

$$\sin^2 \frac{r\pi}{\omega} = \frac{1 - \cos r\pi}{r} = \frac{1 - \frac{\sqrt{r}}{r}}{r} = \frac{r - \sqrt{r}}{r} \Rightarrow \sin \frac{r\pi}{\omega} = \frac{\sqrt{r - \sqrt{r}}}{r}$$

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