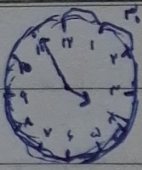


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$$|(\Delta r \times \Delta t) - (r_0 \times r)| = r_0 v \quad (c)$$

$$r_0 v - r_0 v = 10 r_0$$

$$r_0 + r_0 r_0 + r_0 v = 10 r_0$$

$$r_0 \Delta r' \leftarrow (الف ۱)$$

$$|(\Delta r \times \Delta t) - (r_0 \times r)| = 10$$

(c)

$$r_0' \rightarrow r_0'$$

$$10' \rightarrow n = 9'$$

$$9 + r_0' + r_0' + r_0' = 10$$

$$r_0' \Delta r' \leftarrow (الف ۲)$$



$$S = \frac{\pi}{r} \times R' = \frac{\pi}{10} \times 9 = \frac{9\pi}{10}$$

$$c = S = ? \quad (الف ۳)$$

$$\widehat{AB} = \frac{\pi}{9} \times R = \frac{\pi}{9} \Rightarrow R = r \rightarrow p = \widehat{AB} + rR = \frac{\pi}{9} + r$$

$$P = ? \quad (ب)$$

$$\frac{1}{r} \widehat{AB} \times AC \times \sin \theta = \Delta \times \Delta \times \frac{\sqrt{3}}{r} \times \frac{1}{r} \times \frac{1}{r} = 10 \sqrt{3}$$

$$c = S = ? \quad (الف ۴)$$

$$BC = \sqrt{a^2 + b^2 - 2ab \cos \theta} = \sqrt{10^2 + 10^2 - 2 \times 10 \times 10 \times \cos \theta} = \sqrt{100 + 100 - 200 \cos \theta} = \sqrt{200(1 - \cos \theta)}$$

$$P = A + V + a = r$$

$$c = P = ? \quad (ب)$$

$$10 - 10 \cos \theta = r_0 = \widehat{A}$$

$$\frac{10}{r} = \frac{10 \sqrt{3}}{\sin \theta} \rightarrow \sin \theta = \frac{10 \sqrt{3}}{10} = \sqrt{3}$$

$$\sin \theta = \frac{10 \sqrt{3}}{10} = \sqrt{3} \Rightarrow \theta = \frac{\pi}{2}$$

$$c = 10 - 10 \cos \theta = 10$$

(d)

$$r_0' = \frac{\pi}{r}$$

$$\frac{10}{10} = \frac{n}{\pi} \Rightarrow n = \frac{10\pi}{10} = \pi$$

$$\tan(\pi - \alpha) = -\tan \alpha$$

$$\tan(\pi - \alpha) = -\tan \alpha$$

$$\frac{-\tan \alpha + r \tan \alpha}{-\tan \alpha - \tan \alpha} = \frac{r \tan \alpha}{-r \tan \alpha} = -1$$

(e)

$$r \tan(\pi + \alpha) = r \tan \alpha$$

$$\tan(\pi + \alpha) = \tan \alpha$$

$$\frac{\pi}{10} = 10^\circ \quad \tan 10^\circ = a \quad \tan 10^\circ = \tan(90^\circ - 10^\circ) = \cot 10^\circ \quad \tan 10^\circ = (90 + 10) = \cot 10^\circ$$

(v)

$$\tan 10^\circ = \tan(10 - 10) = -\tan 10^\circ$$

$$\tan 10^\circ = \tan(10 + 10) = \tan 20^\circ = \cot 10^\circ$$

$$A = \frac{r \cot 10^\circ - \cot 10^\circ}{r \tan 10^\circ - \cot 10^\circ} \Rightarrow$$

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

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

(۱)

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

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

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

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

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

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

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

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

(۲)

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

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

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

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$$\cos\left(\frac{r\Delta}{r}\right) \quad \cos\left(\frac{\theta}{r}\right) = \sqrt{\frac{1+\cos\theta}{r}} = \sqrt{\frac{1+\frac{\sqrt{F}}{r}}{r}} = \frac{\sqrt{r+\sqrt{F}}}{r}$$

$\cos(r\Delta)$ (الف 1.)

$$rV/\Delta + r\Delta/\Delta = 90 \Rightarrow \sin(rV/\Delta) = \cos(r\Delta/\Delta) = \frac{\sqrt{r+\sqrt{F}}}{r}$$

$\sin(rV/\Delta)$ (ب)