

$$\textcircled{1} \quad \frac{2\pi r}{2\pi r} = b \times \frac{1}{\pi} = \frac{1}{\pi} r$$

$$v = r\omega - b\omega$$

$$\therefore \Delta d v = \Delta d \omega$$

$$v = \frac{1}{2} \omega + \frac{1}{2} \omega + \frac{1}{2} \omega$$

$$\textcircled{1} \quad \omega = \frac{1}{2} \omega + \frac{1}{2} \omega + \frac{1}{2} \omega$$



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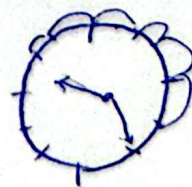
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$$\textcircled{1} \quad \omega = \frac{1}{2} \omega + \frac{1}{2} \omega + \frac{1}{2} \omega$$



Handwritten notes in the right margin.

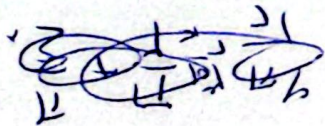
$$12 \cdot \pi = 12 \cdot R_{\text{eff}} \cdot \frac{1}{R_{\text{eff}}} = R_{\text{eff}} = 12$$

$$\frac{6}{11}$$

$$S \cdot \beta \cdot \frac{1}{\sqrt{r}} = \frac{1}{\sqrt{r}}$$

$$\beta = \frac{\pi}{3}$$

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18

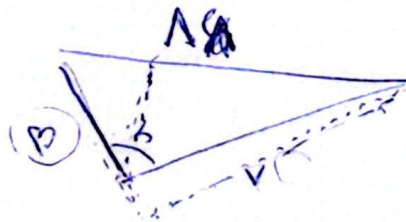


22

$\frac{1}{4}$

$\frac{1}{4}$





$$\frac{\sqrt{r}}{r} \times \frac{r}{1} = 1 \cdot \sqrt{r}$$

$$S = \sqrt{S_1 \times S_2}$$

$$2 + \frac{\lambda}{4} = b + 1 \times \frac{\lambda}{4}$$

$$\frac{-\tan \alpha + \mu \tan \alpha}{-\tan \alpha - \tan \alpha} = \frac{\mu \tan \alpha}{-\tan \alpha} = -1 \quad (4)$$

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

$$\tan 10^\circ = \alpha$$

$$\cot 15^\circ = \frac{1}{\alpha}$$

$$\frac{\mu \tan \left(\frac{\pi}{12} - 10^\circ \right) + \tan \left(\frac{\pi}{12} + 10^\circ \right)}{\mu \tan \left(\frac{\pi}{12} - 10^\circ \right) - \tan \left(\frac{\pi}{12} + 10^\circ \right)} = \tan \left(\frac{\pi}{12} - 10^\circ \right)$$

$$\frac{\mu \cot 10^\circ - \cot 10^\circ}{-\mu \tan 10^\circ - \cot 10^\circ} = \frac{+\cot 10^\circ}{-}$$

$$\frac{\frac{1}{\alpha}}{-\mu \alpha - \frac{1}{\alpha}} = \frac{\frac{1}{\alpha}}{\frac{\mu \alpha^2 - 1}{\alpha}} = \frac{1}{\mu \alpha^2 - 1}$$

$$\mu \frac{1}{\alpha} - \frac{1}{\alpha} = \frac{1}{\alpha}$$

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

(1)

$$\begin{aligned} r \cos \theta &= r \sin \theta - c \\ \frac{1}{2} \cos \theta &= \sin \theta \\ \Rightarrow \end{aligned}$$

$$\frac{\sin \theta - r \cos \theta + 1}{\sin \theta - c} = \frac{\sin \theta + r \cos \theta - 1}{\cos \theta}$$

$$\textcircled{7} \quad \tan \theta = \frac{\frac{1}{4}}{\frac{1}{4}} = 1$$

$$\frac{r \sin \theta}{\frac{1}{4}} = \frac{\frac{1}{4}}{\frac{1}{4}} \Rightarrow \cos \theta = \frac{1}{4}$$

$$\begin{aligned} \sin \theta + c &= 1 \\ \sin \theta - c &= -r \\ \sin \theta - c &= r \end{aligned}$$

$$\frac{r \sin \theta}{\sin \theta} = -r$$

$$\frac{\sin \theta + c + r \sin \theta + \sin \theta + c - r \sin \theta}{\sin \theta - c} = 1$$

(10)

$$\cos \theta_1 =$$

$$\cos \theta_1 = \frac{1 + \cancel{\cos \theta} \cdot \frac{\sqrt{r}}{r}}{\frac{r + \sqrt{r}}{\Sigma}} = \frac{r + \sqrt{r}}{\Sigma}$$

$$\cos \theta_1 = \frac{1 + \sqrt{\frac{r + \sqrt{r}}{\Sigma}}}{\Sigma} = \frac{\sqrt{r + \sqrt{r}}}{r}$$

$$\sin \theta_1 =$$

$$\sin \theta_1 = \frac{1 - \cancel{\cos \theta} \cdot \frac{\sqrt{r}}{r}}{\Sigma} = \frac{r + \sqrt{r}}{\Sigma}$$

$$\sin \theta_1 = \frac{\sqrt{r + \sqrt{r}}}{r}$$

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