

حل) $r \times p = 15$

$\frac{1}{a} \times \frac{1}{b} \rightarrow \frac{a}{b} \times \frac{b}{a}$

$15 + 25 + 4 = 105^\circ$



ب) $\theta = |r \cdot h - \omega \rho m| \rightarrow |r \cdot p - \omega \times \omega f| \rightarrow |9 - 25| = 105^\circ$

حل) $r \times p = 9$ $r \times q = 15$

$\frac{1}{a} = \frac{9}{r}$

$9 + 15 + 9 = 11$

ب) $|r \times q - \omega \times \omega f| = |11 - 9| = 11^\circ$

حل) $\frac{a}{r} \times r^2 \rightarrow \frac{u}{r} \times \frac{\pi}{a} \times 9 = \frac{9u}{15} = \frac{3u}{5}$

ب) $r \times a = r \times \frac{\pi}{a} = \frac{\pi}{r} \text{ cm}$

$P = r \times r + b \rightarrow r \times r + \frac{u}{r} \rightarrow 9 + \frac{u}{r}$

حل) $\frac{1}{r} \times \omega \times \omega \times \sin \theta \rightarrow \frac{1}{r} \times 9 \times \frac{\sqrt{r}}{r} = 10\sqrt{r} : S_{ABC}$

ب) $\frac{AC}{\sin B} = \frac{AB}{\sin C} = \frac{BC}{\sin A} \rightarrow \frac{\sin B}{AC} = \frac{\sin C}{AB} = \frac{\sin A}{BC}$

P_{ABC}

$AB \cdot BC = \sqrt{49 + 25 - 2(7 \cdot 5 \cdot \cos A)} \rightarrow 14 - 10 \times \frac{1}{r} = \sqrt{49} = 7$

$7 + 14 + 25 = 46$

$B + C = 180^\circ \rightarrow 110^\circ - 10^\circ = 70^\circ = A$

$\frac{10}{\sin A} = \frac{10\sqrt{r}}{\sin B} \rightarrow \frac{10}{1} = \frac{10\sqrt{r}}{\sin B} \rightarrow \sin B = \frac{\sqrt{r}}{r} \quad B = 60^\circ$

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

$C = \frac{\sqrt{\pi}}{11}$

$C = 180^\circ - 70^\circ - 10^\circ \rightarrow \frac{\sqrt{\pi}}{11}$

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

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

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

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

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

$$\tan \omega = \frac{1}{r} = \alpha$$

$$\tan \omega = \cot \omega = \frac{1}{\alpha}$$

$$\tan \omega = \tan(\pi - \omega) = -\cot \omega = -\frac{1}{\alpha}$$

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

$$\tan \omega = \tan(\pi - \omega) = \tan \omega = \frac{1}{\alpha}$$

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

$$t = \frac{\sin \alpha + \cos \alpha}{\sin \alpha - \cos \alpha}$$

$$t + \frac{1}{t} = r \rightarrow t^2 - rt + 1 = 0$$

$$\frac{t}{\cos \alpha} \rightarrow t = \frac{\tan \alpha + 1}{\tan \alpha - 1}$$

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

$$\tan^2 \alpha = \left(\frac{t+1}{t-1} \right)^2 \rightarrow \tan^2 \alpha = \omega$$

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

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

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

$$f \cos^2 \alpha = r \sin^2 \alpha - 1 \rightarrow f - f \sin^2 \alpha = r \sin^2 \alpha - 1$$

$$v \sin^2 \alpha = \omega \rightarrow \sin^2 \alpha = \frac{\omega}{v}$$

$$\cos^2 \alpha = \frac{r}{v}$$

$$\tan^2 \alpha = \frac{\frac{\omega}{v}}{\frac{r}{v}} = \frac{\omega}{r}$$

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

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