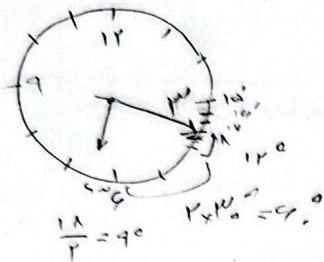


$$12 \times 30 + 60 + 10 \times 6 = 150^\circ$$

۱. رسیدن به دست - ۱۵، ۷۵
خبره را با دست مقابله کن!

$$|5, 5m - 10h| = 5, 5(10) - 90 = 20, 5$$

$$\alpha = 39^\circ - 20, 5 = 18, 5^\circ$$



$$90 + 9 + 12 = 111^\circ$$

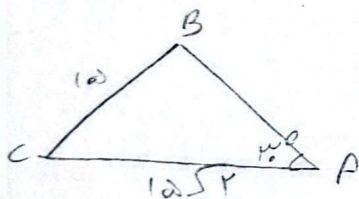
$$\left| \frac{5, 5(11) - 10 \times 12}{99} \right| = 111^\circ$$

$$\text{شماره} = \frac{5}{1} R^2 = \frac{5}{9} \times \frac{1}{1} = \frac{5}{9}$$

$$\text{شماره} = 5R = 5 \times \frac{1}{5} = 1$$

$$\frac{1}{2} \times 1 \times 5 \times \sin 90^\circ = 5 \times \frac{1}{2} = 2, 5$$

$$P \cdot S \cdot 3 = P(P-1)(P-5)(P-30)$$



$$\frac{-\tan(\theta) + 3\tan(\theta)}{-\tan(\theta) - \tan(\theta)} = \frac{2\tan(\theta)}{-2\tan(\theta)} = -1$$

$$\frac{\tan(45^\circ - 10^\circ) + \tan(45^\circ + 10^\circ)}{1 - \tan(10^\circ - 10^\circ) - \tan(10^\circ - 10^\circ)}$$

$$\frac{\cot(10^\circ) + \cot(10^\circ)}{1 - \cot(10^\circ) - \cot(10^\circ)} = 0$$

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

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

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

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

$$\sin^2 \alpha = \frac{1}{2}$$

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

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

$$r - r \cos \theta = r \cos \theta$$

$$\cos \theta = \frac{\frac{\omega}{v} r}{\frac{\omega}{r}} = \frac{\omega}{r} = \frac{v}{r}$$

$$r = v \cos \theta$$

$$\cos \theta = \frac{v}{r}$$

$$\sin \theta = \frac{\omega}{v}$$

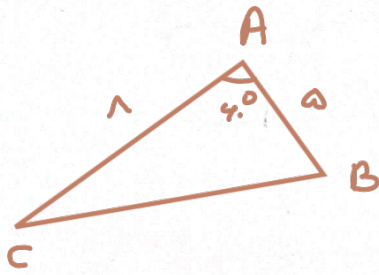
$$\cos(r, \omega) = \sin(\theta, \omega)$$

$$\cos \theta = \pm \sqrt{\frac{1 + \cos \theta}{r}}$$

$$\cos r, \omega = \sqrt{\frac{1 + \cos \theta}{r}}$$

$$\cos r, \omega = \frac{1 + \frac{v}{r}}{r} = \frac{r + v}{r}$$

$$r, \omega \times r = F \omega^2$$



$$S_{ABC} = \frac{1}{2} \times (a)(1) \times \sin 40^\circ$$

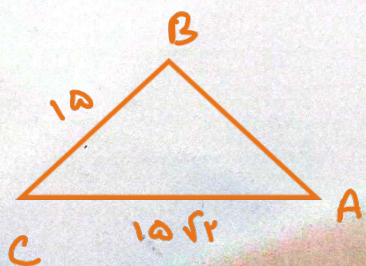
$$S_{ABC} = \frac{1}{2} \times F \times \sqrt{\frac{F}{r}} = 1.53$$

$$BC^2 = a^2 + 1^2 - 2(a)(1)(\cos 40^\circ)$$

$$BC^2 = 48 + 42 - 41 = 49 \rightarrow BC = 7$$

$$P_{ABC} = a + 1 + v = 7$$

طبق قضیه سینوس ها



$$\hat{A} = \pi - (\hat{B} + \hat{C}) = 30^\circ$$

$$\frac{10}{\sin \hat{A}} = \frac{10\sqrt{r}}{\sin \hat{B}}$$

$$\sin \hat{B} = \frac{10\sqrt{r} \times \frac{1}{r}}{10} = \frac{\sqrt{r}}{r} \rightarrow \hat{B} = 45^\circ \rightarrow \hat{B} = \frac{\pi}{4}$$

$$\hat{C} = 180^\circ - (45^\circ + 30^\circ) = 105^\circ \rightarrow \hat{C} = \frac{7\pi}{12}$$

طبق قضیه سینوس ها

$$\frac{\pi}{r} = \left(\frac{\pi}{4}\right) \times \frac{1}{r} = \frac{\psi^\circ}{r} = 12^\circ$$

✓

$$A = \frac{\psi \tan\left(\frac{\pi}{r} - 12^\circ\right) + \tan\left(\frac{\pi}{r} + 12^\circ\right)}{\psi \tan(\pi - 12^\circ) - \tan\left(\frac{\pi}{r} - 12^\circ\right)} = \frac{\psi \cot 12^\circ - \cot 12^\circ}{-\psi \tan 12^\circ - \cot 12^\circ}$$

$$A = \frac{\cot 12^\circ}{-\psi \tan 12^\circ - \cot 12^\circ} \xrightarrow{\tan 12^\circ = a} \frac{\frac{1}{a}}{-\psi a - \frac{1}{a}} = \frac{-1}{\psi a^2 + 1}$$