



$$\Sigma \times 4 = 12 + 4 + 27 = 103^\circ$$

$$\frac{08}{2} = 27$$

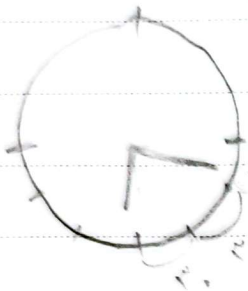
۱۔ الف

$$\alpha / 0, 0 M = 2. H$$

(ب)

$$(0, 0 \times 08 = 2 \times 4) = 2. V$$

$$14 = 2. V, 18^\circ$$



$$2 \times 10 = 4 + 9 + 12 = 11$$

$$\frac{11}{2} = 9$$

$$2 \times 11 = 12$$

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$$(0, 0 M = 2. H)$$

(C)

$$(0, 0 \times 11 = 2 \times 4) = 11$$

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$$S = \pi r^2 \times \frac{2\pi}{2}$$

الف ()

$$L = 2R + 2R = 4 + \frac{2\pi}{4} \times 1 = 4 + \frac{\pi}{2}$$

ب ()

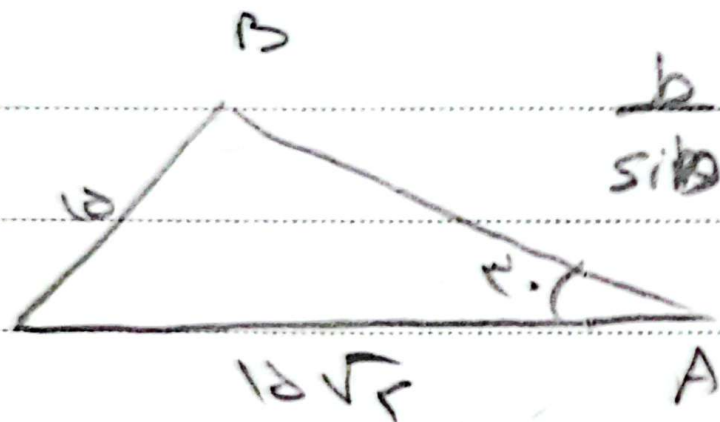
$$S = \frac{1}{2} \times a \times b \times \sin A = \frac{1}{2} \times 1 \times 1 \times \frac{\sqrt{3}}{2} = 1. \sqrt{3}$$

$$CB^2 = 4^2 + 2^2 - 2 \times 4 \times 2 \times \frac{1}{2} = 29 \quad CB = \sqrt{29} V$$

$$a^2 = b^2 + c^2 - 2bc \cos A \quad P = 1 + 8 + \sqrt{5} \times 2$$

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$$\frac{b}{\sin B} = \frac{a}{\sin A} = \frac{10}{\sin 45^\circ} = \frac{10}{\frac{1}{\sqrt{2}}} = 10\sqrt{2}$$

$$\sin b = \frac{\sqrt{2}}{2} \quad b = \arcsin\left(\frac{\sqrt{2}}{2}\right) = \frac{\pi}{4}, \frac{3\pi}{4}$$

$$\frac{\pi}{2} + C = \frac{3\pi}{4}$$

$$C = \frac{\pi}{4} \quad B = \frac{\pi}{2}$$

$$C = \frac{0\pi}{4} - \frac{\pi}{2} = \frac{1\pi - 2\pi}{4} = \frac{-\pi}{4}$$

$$\frac{\tan(a) + \mu \tan(a)}{\tan(a) - \tan(a)}$$

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

$$\tan\left(\frac{\pi}{r} - \frac{\pi}{1r}\right) + \tan\left(\frac{\pi}{r} + \frac{\pi}{1r}\right) = \frac{10}{11} = \frac{\pi}{1r}$$

$$\tan\left(\pi - \frac{\pi}{1r}\right) - \tan\left(\frac{\pi}{r} - \frac{\pi}{1r}\right)$$

$$+ \cot\left(\frac{\pi}{1r}\right) - \cot\left(\frac{\pi}{1r}\right)$$

$$= \tan\left(\frac{\pi}{1r}\right) - \cot\left(\frac{\pi}{1r}\right)$$

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

$$= \frac{1}{a} - \frac{1}{a} = \frac{1 - 1}{a} = \frac{0}{a} = 0$$

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c

$$(\sin + \cos) + (\sin - \cos)$$

$$(\sin - \cos)(\sin + \cos)$$

$$\sin^2 + \cos^2 + \cancel{r \cos \sin} + \sin^2 + \cos^2 - \cancel{r \cos \sin} = 1 + \cos^2$$

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

$$r = 4 \cos^2 r$$

$$\sin^2 + \cos^2 = 1$$

$$\frac{1}{4} = \frac{4 \cos^2}{r}$$

$$\tan^2 + 1 = \frac{1}{\cos^2} \quad \tan^2 + 1 = 4 \quad \tan^2 = 3$$

$$\frac{\sin^2 r - \cos^2 r}{1 - \cos^2 r} = \frac{-\cos^2 r \sin^2 r}{1 - \sin^2 r} = \frac{r \sin^2 - \cos^2}{\cos^2} \quad r \tan^2 - 1 = 3$$

$$\cos^2(r, 0) = 1 + \frac{\cos(0)}{r} \quad 1 + \frac{\sqrt{r}}{r} = \frac{r + \sqrt{r}}{r} \quad \cos \sqrt{r + \sqrt{r}}$$

$$\sin(90, 0) = 1 - \frac{\cos(90)}{r} \quad 1 + \frac{\sqrt{r}}{r} = \frac{r + \sqrt{r}}{r} = \frac{\sqrt{r + \sqrt{r}}}{r}$$