

Subject.....

Day..... Month..... Year.....

الناسبياني

$$\alpha = |2 \cdot h - 0,5m| =$$

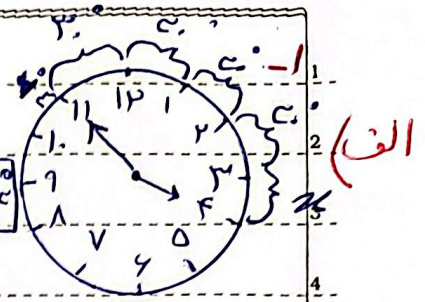
$$|(2 \cdot x^c) - 0,5(0,5)| = |-2 \cdot v|$$

$$= 2 \cdot v^\circ \Rightarrow 2 \cdot v - 2 \cdot v = 10^\circ$$

(ب)

$$\alpha = \frac{0,5}{2} = 2,5^\circ$$

$$\Rightarrow 2v + 4(2 \cdot x^c) = 10^\circ$$



$$\alpha = |2 \cdot h - 0,5m|$$

$$= |(2 \cdot x^c) - (0,5 \times 11)|$$

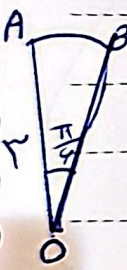
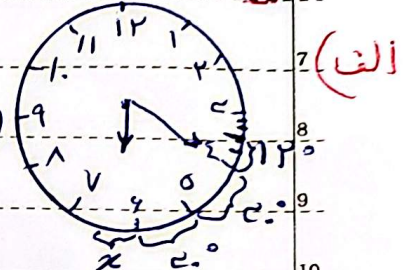
$$= |11| = 11^\circ$$

(ب)

$$\alpha = \frac{11}{2} = 5,5^\circ$$

$$= 11 + (2 \times 2) + (2 \times 2)$$

$$= 11^\circ$$



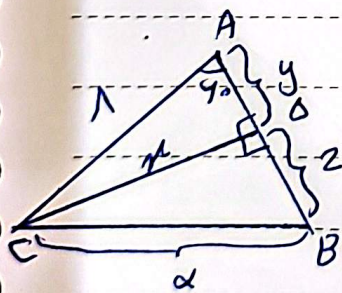
$$P = 2R + 2R = \frac{\pi}{2} \times x^c + 2 \times c$$

$$= \frac{\pi}{2} + 2$$

(ب)

$$S = \frac{\alpha}{2} R^2 = \frac{\pi}{2} \times c^2 =$$

$$\frac{\pi}{2} \times x^c = \frac{c \pi}{2}$$



$$\sin \alpha = \frac{\sqrt{c}}{2}$$

(ب)

$$S_{\triangle ABC} = \frac{1}{2} bc \sin A$$

$$= \frac{1}{2} \times 1 \times 0 \times \frac{\sqrt{c}}{2}$$

$$\alpha = \frac{\sqrt{c}}{2} \times 1 \times \sqrt{c} \Rightarrow y = \sqrt{1^2 - (2\sqrt{c})^2} = 2 = 1 \cdot \sqrt{c}$$

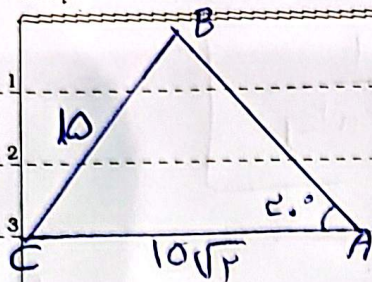
$$\Rightarrow z = 0 - 2 = 1 \Rightarrow \alpha = \sqrt{(2\sqrt{c})^2 + 1^2} = \sqrt{5}$$

$$P = 0 + 1 + 2 = 3$$



Subject.....

Day..... Month..... Year.....



$$\hat{B} + \hat{C} = 10. \Rightarrow \hat{A} = 11. - 10. = 1.0$$

$$\Rightarrow \frac{a}{\sin A} = \frac{b}{\sin B} \Rightarrow \frac{10}{\frac{1}{r}} = \frac{10\sqrt{r}}{\sin B}$$

$$\Rightarrow \sin B = \frac{\sqrt{r}}{r} \Rightarrow B = \begin{cases} 20^\circ \\ 160^\circ \end{cases}$$

$$\Rightarrow \hat{B} = \frac{\pi}{2}, \hat{C} = 11. - (2. + 20) = 1.0 \Rightarrow \frac{1.0}{11.} = \frac{\text{Rad}}{\pi}$$

$$\Rightarrow \hat{C} = \frac{\sqrt{\pi}}{1r}$$

$$\frac{\tan(\pi - \alpha) + r \tan(\pi + \alpha)}{\tan(r\pi - \alpha) - \tan(r\pi + \alpha)} = \frac{-\tan(\alpha) + r \tan(\alpha)}{-\tan(\alpha) - \tan(\alpha)}$$

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

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

$$\frac{\frac{\pi}{1r}}{-\frac{\pi}{1}} = \frac{D}{11.} \Rightarrow D = 10. \Rightarrow A = \frac{r \tan 10. + \tan 1.0}{r \tan 10. + \tan 10.}$$

$$\frac{r \tan(\frac{\pi}{r} - \alpha) + \tan(\frac{\pi}{r} + \alpha)}{r \tan(\pi - \alpha) - \tan(\frac{c\pi}{r} - \alpha)} = \frac{r \cot(\alpha) - \cot(\alpha)}{-r \tan(\alpha) - \cot(\alpha)}$$

Subject.....

Day..... Month..... Year.....

$$\frac{\cot(a)}{-r \tan(a) - \cot(a)} = \frac{\frac{1}{a}}{-ra - \frac{1}{a}} = \frac{\frac{1}{a}}{\frac{-ra^2 - 1}{a}} = \boxed{\frac{1}{-ra^2 - 1}}$$

$$\frac{\sin x + \cos x}{\sin x - \cos x} + \frac{\sin x - \cos x}{\sin x + \cos x} = r$$

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

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

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

$$\Rightarrow \sin^2 x = \frac{r}{2} + \cos^2 x + \cos^2 x = 1 \Rightarrow \cos^2 x = \frac{1}{2} \Rightarrow \sin^2 x = \frac{r}{2} + \frac{1}{2} = \frac{0}{2}$$

$$\Rightarrow \tan^2 x = \frac{\frac{0}{2}}{\frac{1}{2}} = 0$$

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

$$\Rightarrow r \cos^2 x = r \Rightarrow \cos^2 x = \frac{r}{2} \Rightarrow \sin^2 x = 1 - \frac{r}{2} = \frac{0}{2}$$

$$\Rightarrow \tan^2 x = \frac{\frac{0}{2}}{\frac{r}{2}} = \frac{0}{r}$$

$$\cos(2r, 0^\circ) \Rightarrow \cos^2 x = \frac{1 + \cos^2 x}{2} \Rightarrow \cos^2 2r, 0 = \frac{1 + \cos^2 x}{2}$$

$$\frac{1 + \frac{\sqrt{r}}{r}}{r} = \frac{\frac{r + \sqrt{r}}{r}}{r} = \frac{r + \sqrt{r}}{r^2} \Rightarrow \cos 2r, 0 = \sqrt{\frac{r + \sqrt{r}}{r^2}} = \frac{\sqrt{r + \sqrt{r}}}{r}$$

Subject.....

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$$1 \quad \text{ب) } \sin(94.0^\circ) \Rightarrow \sin^2 \alpha = \frac{1 - \cos 2\alpha}{2}$$

$$2 \quad \Rightarrow 2 \sin^2 47.0^\circ = \frac{1 - \cos 94.0^\circ}{2} = \frac{1 - \left(-\frac{\sqrt{2}}{2}\right)}{2} = \frac{2 + \sqrt{2}}{4}$$

$$3 \quad \Rightarrow \sin 47.0^\circ = \frac{\sqrt{2 + \sqrt{2}}}{2}$$