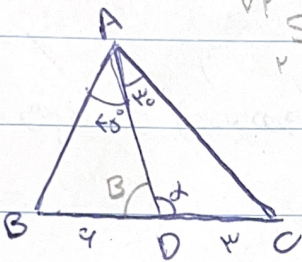


$$\sin \alpha = \cos(1)$$

سند و کتابخانه ملی؟ AB طول -

$$\cos(1) = \frac{OT}{OB} \quad OB = \frac{1}{\sin \alpha}$$

$$AB = OB - OA' = \frac{1}{\sin \alpha} - 1$$



$$\frac{\sin \alpha}{1} = \frac{\sin \beta}{AB}$$

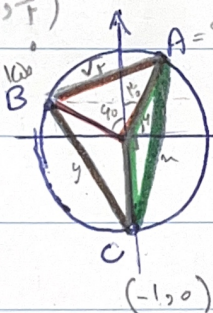
$$\alpha + \beta = \pi \Rightarrow \sin \alpha = \sin \beta$$

$$\frac{1}{1} \frac{\sin \alpha}{1} = \frac{\sin \alpha}{AC} \quad \frac{AB}{AC} = \frac{1}{1}$$

$$AB = \frac{\sin \beta \cdot 1}{\sin \alpha}$$

$$AC = \frac{1}{\sin \alpha} = \frac{1}{\sin \alpha} = \frac{1}{\sin \alpha}$$

$$\left(\frac{\sqrt{10}}{10}, \frac{1}{10} \right)$$



$$\frac{1}{10} \times 1 \times 1 \times \sin 100^\circ = \frac{1}{10}$$

$$\frac{1}{10} \times 1 \times 1 \times \sin 40^\circ = \frac{1}{10}$$

$$\frac{1}{10} \times 1 \times 1 \times \sin \frac{\sqrt{10}}{10} = \frac{\sqrt{10}}{10}$$

$$\frac{1}{10} = \sin 100^\circ \quad \frac{1}{10} = \sin 40^\circ$$

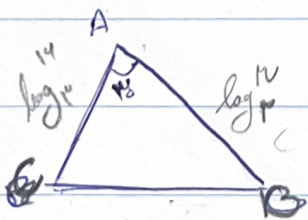
ABC مثلث قائمه -

ABC مثلث قائمه -

$$\frac{1}{10} \rightarrow \frac{1}{\sin 100^\circ} = \frac{1}{\sin 10^\circ} \Rightarrow \frac{1}{10} = \frac{1}{\sin 10^\circ} = \frac{1}{\sin 10^\circ}$$

$$\frac{1}{10} \rightarrow \frac{1}{\sin 10^\circ} = \frac{1}{\sin 10^\circ} \rightarrow y = \sqrt{10} \quad P = \frac{\sqrt{10} + \sqrt{10} + 2\sqrt{10} + 2\sqrt{10}}{2} = \frac{\sqrt{10} + 2\sqrt{10} + 2\sqrt{10}}{2}$$

$$ABC \text{ مثلث قائم } BC = \log_{10}^{10}, AC = \log_{10}^{10} -$$



$$S_{ABC} = \frac{1}{2} \times \log_{10}^{10} \times \log_{10}^{10} \times \frac{1}{10} =$$

$$\frac{1}{2} \times \log_{10}^{10} \times \log_{10}^{10} \times \frac{1}{10} = \frac{1}{10}$$

$$\frac{1}{\log_{10}^{10}}$$

$$w = p(n)q(n) + r$$

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

Subject

Date

۳- باقی مانده تقسیم $p n^2 - n^2 - \sin^2(\alpha)(p \sin \alpha - 1)$ بر $n - \cos \alpha$ برابر است

$$\sin^2 \alpha = ?$$

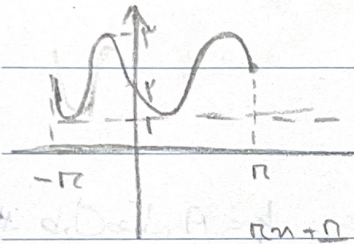
$$n = \cos \alpha \rightarrow p \cos^2 \alpha - \cos^2 \alpha - \sin^2 \alpha (p \sin^2 \alpha - 1) = \cos^2 \alpha (p \cos^2 \alpha - 1) +$$

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

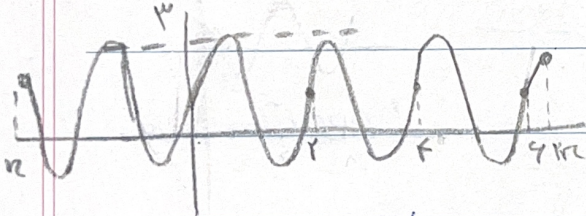
$$1 - \cos^2 \alpha = 1 - 1 = 0 = \sin^2 \alpha$$

۴- رسم کنید (دوره و دامنه)

$$f(x) = p \sin x \cos x + 1 \quad [-\pi, \pi] \quad - \sin^2 x + 1 \quad T = \frac{2\pi}{p} = \pi$$

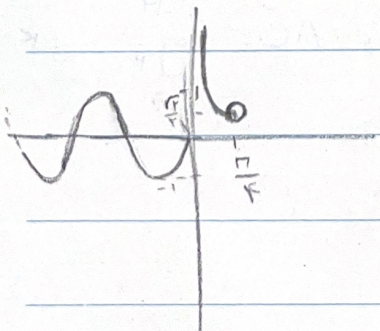


$$b) p \cos(n + \frac{1}{p})n + 1 \quad [-\pi, \pi] \quad - \sin^2 n + 1 \quad T = \frac{2\pi}{p} = \pi$$



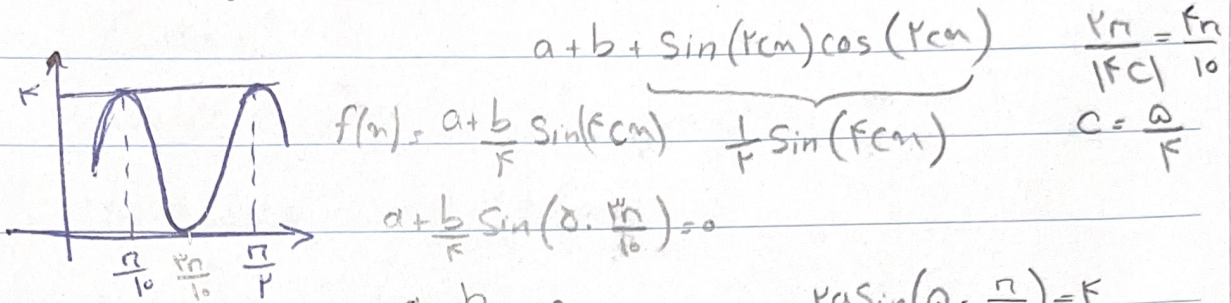
$$f(n) = \begin{cases} \cot n & ; 0 < n < \frac{\pi}{p} \\ \sin n & n \leq 0 \end{cases}$$

(۷) بردار



$[-1, +\infty)$

$$c > 0 \quad \text{و} \quad \frac{bc}{a} \text{ حل } f(n) = a + b \sin(cn) \cos(cn) \cos(\pi cn) - 1$$



$$f(n) = a + b \sin(cn) \cos(cn) \cos(\pi cn) - 1$$

$$\frac{cn}{|f|} = \frac{fn}{10}$$

$$c = \frac{\omega}{F}$$

$$a + \frac{b}{F} \sin(\omega \cdot \frac{n}{10}) = 0$$

$$a - \frac{b}{F} = 0$$

$$a = \frac{b}{F}$$

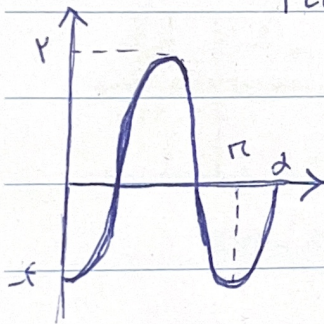
$$F a \sin(\omega \cdot \frac{n}{10}) = F$$

$$F a = F \quad a = 1 \quad b = 1$$

$$\frac{1 \times \frac{\omega}{F}}{F} = \omega$$

$| \tan \alpha |$ حل

$$f(n) = a \cos bn + c \quad \text{و} \quad -9$$



$$y_{\max} = |a| + c = 1$$

$$c = -1$$

$$y_{\min} = -|a| + c = -1$$

$$|a| = 1$$

$$\text{منه } \Rightarrow a = -1$$

$$y = -\cos bn - 1$$

$$\frac{F a}{|b|} = F \Rightarrow |b| = F$$

$$y = -\cos F n - 1 \quad (\alpha_{90}) \quad -\cos \alpha - 1 = 0 \quad \cos \alpha = -\frac{1}{2}$$

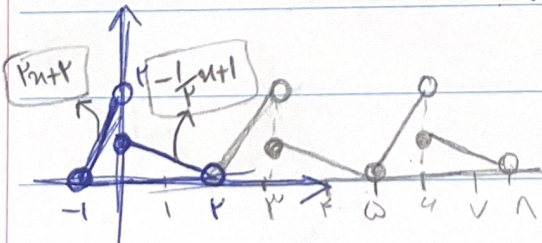
$$1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha} \Rightarrow \tan^2 \alpha = \frac{1}{\cos^2 \alpha} - 1 = 1$$

$$\frac{1}{9} \cos^2 \alpha$$

$$| \tan \alpha | = \sqrt{2}$$

$$f(-\frac{\pi}{10}) \text{ حل}$$

$$F = 10 \text{ دور في الثانية}$$



$$\text{منه } \Rightarrow -\cos \alpha + (1 \times 1) = 1/2$$

$$\Rightarrow f(-\frac{\pi}{10}) = f(1/10) = -\frac{1}{2} \left(\frac{F}{F} \right) + \frac{F}{F} = \frac{1}{2}$$

$$\frac{1}{2}$$