

11/12

11/12

برنام مقفی

$$\tan\left(\frac{\pi}{2} - \alpha\right) = \frac{TB}{OT} = TB$$

$$OB = \sqrt{1+6+2} \Rightarrow TB = \dots$$

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

22 Sep. 2024
18

$$\frac{\sin \alpha}{4} = \frac{\sin 10 - \alpha}{AB} \Rightarrow \frac{\sqrt{2}}{4} = \frac{\sin \alpha}{AB} \Rightarrow AB = \frac{4 \cdot \sin \alpha}{\sqrt{2}} \quad (1)$$

$$\frac{\sin 30}{3} = \frac{\sin \alpha}{AC} \Rightarrow \frac{1}{3} = \frac{\sin \alpha}{AC} \Rightarrow AC = 3 \sin \alpha$$

$$\frac{AB}{AC} = \frac{\frac{4 \cdot \sin \alpha}{\sqrt{2}}}{3 \sin \alpha} = \frac{4}{3\sqrt{2}} = \frac{2}{3} \times \frac{\sqrt{2}}{\sqrt{2}} = \boxed{\sqrt{2}}$$

$$\frac{1}{2} \times \left(\frac{1}{2} + \frac{\sqrt{3}}{2}\right) - \left(-\frac{3}{2} + 0 + -\frac{1}{2}\right) \Rightarrow S = \frac{3 + \sqrt{3}}{2} \quad (2)$$

$$\sqrt{\Delta x + \Delta y} \left\{ \begin{array}{l} AB = \sqrt{2} \\ AC = \sqrt{2 + \sqrt{3}} \\ BC = \sqrt{3} \end{array} \right\} \text{مساحت} = \sqrt{2 + \sqrt{3}}$$

$$\frac{1}{2} \times \sin 30 \times \log_{\sqrt{2}} 16 \times \log_{\sqrt{2}} 16 = \frac{1}{2} \times 2 \times 2 \log_{\sqrt{2}} 2 \times 2 \log_{\sqrt{2}} 2 \quad (3)$$

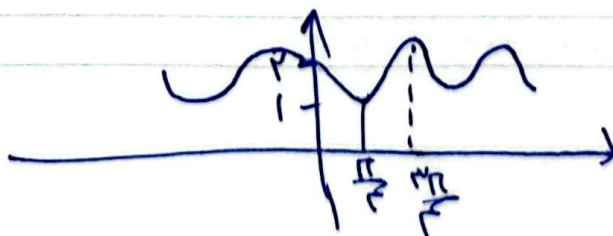
$$S = \sqrt{9 - 4(\log_{\sqrt{2}} 2)^2} + 2\sqrt{2}(\log_{\sqrt{2}} 2)^2$$

$$Y \cos^2 - \cos^2 - \sin^2 (Y \sin^2 - 1) = Y \cos^2 - \cos^2 - Y \sin^2 + \sin^2 \quad (4)$$

$$\cos^2 + \sin^2 = 1 \quad \left\{ \begin{array}{l} 1 = \cos^2 \alpha \\ 1 = \cos^2 - \sin^2 \end{array} \right\} \Rightarrow \boxed{\sin^2 \alpha = 0}$$

$$\text{جواب}) -Y \sin \pi \cos \pi + Y = Y - \sin^2 \pi \quad (5)$$

$$T = \frac{2\pi}{Y} = \pi$$



$$T = \frac{2\pi}{1\pi} = 2$$

۲ روش

$$2 \cos\left(m + \frac{1}{4}\pi\right) + 1$$

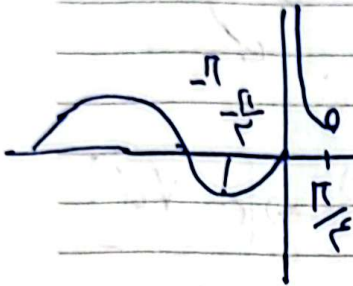
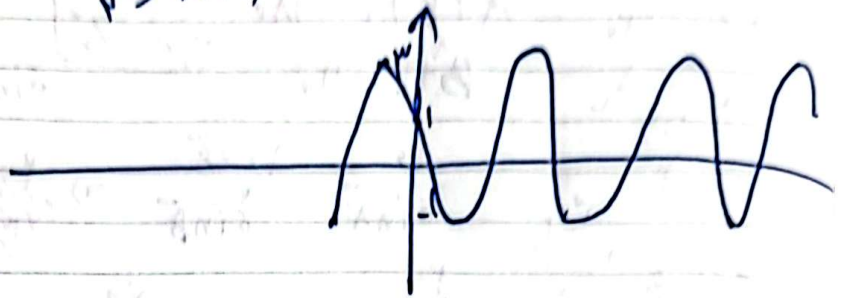
(ب)

23 Sep. 2024

۱۴۴۶

ربیع الاول

۱۹



$$R = [-1, +\infty)$$

(۱)

$$f(m) = a + b \sin(m) \cos(m) \cos(m) = a + \frac{b}{\sqrt{2}} \sin(m) \quad a = \frac{f+m}{2} = 1$$

$$T = \frac{2\pi}{\omega} \rightarrow \omega = \frac{2\pi}{T} = \pi \quad f(m) = 1 + \sin(\pi m) \quad \frac{b}{a} = \frac{1 + \sin(\pi)}{1} = 0$$

$$\frac{|b|}{a} = \frac{f-m}{2} = 0 \rightarrow b = 0$$

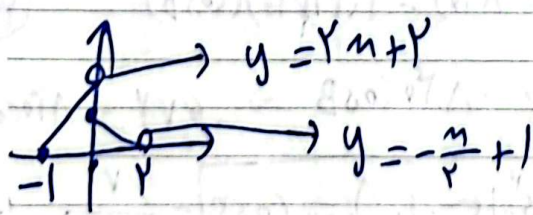
$$c = \frac{f-m}{2} = 0$$

$$|a| = \frac{f+m}{2} = 1 \Rightarrow a = 1$$

$$\Rightarrow f(m) = -1 \cos(\pi m - 1) \quad \cos 2\pi = 1$$

$$T = 2 = \frac{2\pi}{|\omega|} \rightarrow |\omega| = \pi \Rightarrow \omega = \pi$$

$$\tan 2\alpha = \frac{1 + \tan \alpha}{1 - \tan \alpha} \rightarrow \frac{1 + \sqrt{2}}{-1} = -1 - \sqrt{2}$$



$$\mu = \text{میانگین}$$

$$\frac{\mu_1 + \mu_2}{2} = 1 + \frac{0}{2} = 1$$

روز بزرگداشت شهدای منا

$$y = -\frac{x}{2} + 1 \Rightarrow -\frac{(1/\omega)}{2} + 1 = \frac{0}{2\omega}$$

$$\cdot \cos(y = -\frac{x}{2}) \text{ در } (0, 1) \leftarrow f(-\frac{1}{2}/\omega)$$