

(١٤)

دوازدهم خرداد

باران نسیمی

اسفند

۲۵

دوشنبه

۲۶ رمضان

MARCH

16 MONDAY

2026
1447

$$A = (\cos \alpha, \sin \alpha) \quad B = (1, 0)$$

$$AB = \sqrt{(1 - \cos \alpha)^2 + (0 - \sin \alpha)^2} = \sqrt{(1 - \cos \alpha)^2 + \sin^2 \alpha}$$

$$AB = \sqrt{1 - 2\cos \alpha + \cos^2 \alpha + \sin^2 \alpha} = \sqrt{2 - 2\cos \alpha}$$

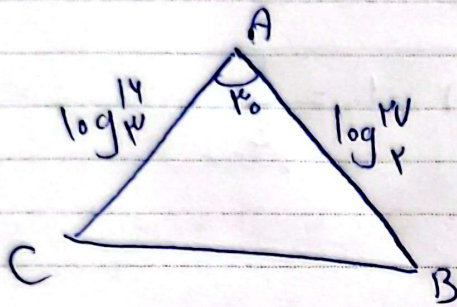
$$\Rightarrow AB = \sqrt{2 - 2\cos \alpha}$$

$$\frac{BD}{\sin \hat{BAD}} = \frac{AB}{\sin \hat{ADB}} \Rightarrow \frac{r}{\sin \epsilon} = \frac{r \sin(\hat{ADB})}{\frac{\sqrt{2}}{2}} \quad -r$$

$$\frac{r \sin \hat{ADB}}{\sqrt{2}} = \epsilon \sqrt{2} (\hat{ADB})$$

$$\frac{r \sin \hat{ADC}}{\sin \epsilon} = \cancel{r} \sin \hat{ADC} \rightarrow \sin \hat{ADC} = \sin(180^\circ - \hat{ADB})$$

$$\frac{AB}{AC} = \frac{r \sqrt{2} \sin \hat{ADB}}{\epsilon \sin \hat{ADB}} = \sqrt{2}$$



$$AC = \log_{\mu} 14$$

$$AB = \log_{\mu} 2$$

$$S_{ABC} = ?$$

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آغاز نوروز تعطیل

فروردین

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یکشنبه

شعبان ۲

MARCH
22 SUNDAY

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

$$\rightarrow \frac{1}{2} \times \mu \log_{\mu} 14 \times \log_{\mu} 2 \times \frac{1}{\mu}$$

$$S_{\Delta ABC} = \mu \frac{\log_{\mu} 14}{\log_{\mu} 2} \times \log_{\mu} 2 = (14)$$

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

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

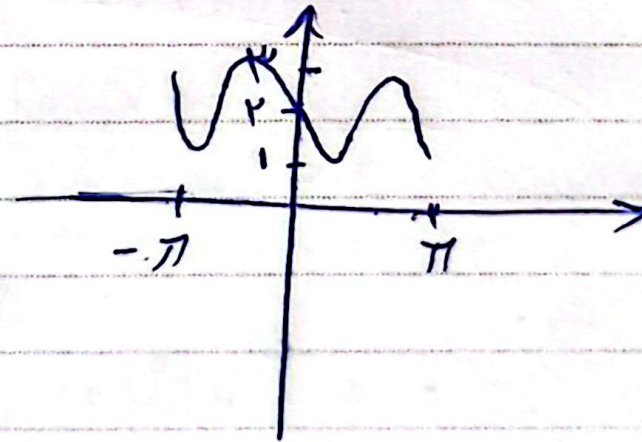
$$\sin^2 \alpha = \sqrt{\omega - 1}$$

$$2 - 2 \sin 2x \cos x + 2$$

$$+ \frac{1}{2} \sin 2x \rightarrow -\sin 2x + 2$$

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$$T = \frac{2\pi}{|b|} = \frac{2\pi}{2} = \pi$$



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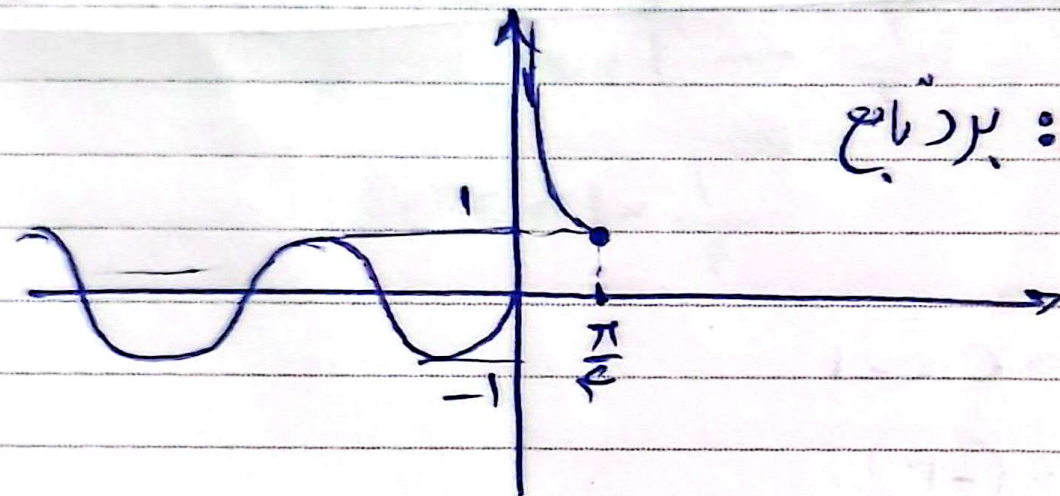
۸ ۷ ۶ ۵ ۴ ۳ ۲

۱۵ ۱۴ ۱۳ ۱۲ ۱۱ ۱۰ ۹

۲۲ ۲۱ ۲۰ ۱۹ ۱۸ ۱۷ ۱۶

۲۹ ۲۸ ۲۷ ۲۶ ۲۵ ۲۴ ۲۳

روز بزرگداشت پروین اعتصامی



بردار: $[-1, +\infty)$

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$$\sin \alpha \cos \alpha = \frac{1}{\sqrt{2}} \sin 2\alpha \rightarrow \frac{1}{\sqrt{2}} \sin 2\alpha \cos 2\alpha = \frac{1}{2} \sin 4\alpha$$

$$\rightarrow f(x) = a + \frac{b}{\varepsilon} \sin(\sqrt{e}x)$$

$$\text{Max: } \left| \frac{b}{\varepsilon} \right| + a = \varepsilon$$

$$T = \frac{\pi}{\sqrt{e}} - \frac{\pi}{1} = \frac{\omega\pi - \pi}{\sqrt{e}} = \frac{\varepsilon\pi}{1} = \frac{\sqrt{e}\pi}{\omega}$$

$$\text{Min: } -\left| \frac{b}{\varepsilon} \right| + a = 0 \quad \xrightarrow{\text{der}} \frac{b}{\varepsilon} \rightarrow \oplus$$

$$\hookrightarrow a = \varepsilon$$

$$\frac{b}{\varepsilon} = \sqrt{e} \rightarrow b = \varepsilon$$

$$\rightarrow \frac{bc}{a} = \frac{\omega \times \sqrt{e}}{\sqrt{e}} = \omega$$

$$\varepsilon c = \omega \hookrightarrow c = \frac{\omega}{\varepsilon}$$

$$f(x) = a \cos bx + c$$

$$\text{max} = |a| + c = \varepsilon$$

$$\text{min} = -|a| + c = -\varepsilon$$

$$\varepsilon c = -\varepsilon \rightarrow c = -1$$

$$|a| = \mu \xrightarrow{\text{der}} \mu$$

$$\frac{\mu\pi}{|b|} = \pi \quad |b| = \sqrt{e} \rightarrow f(x) = -\mu \cos \sqrt{e}x - 1$$

$$f(x) = 0 \rightarrow -\mu \cos \sqrt{e}x - 1 = 0$$

$$\cos \sqrt{e}x = \frac{-1}{\mu} \quad \sin \sqrt{e}x = \sqrt{1 - \frac{1}{\mu^2}} = \frac{\sqrt{\mu^2 - 1}}{\mu} \Rightarrow \sin \sqrt{e}x = \pm \frac{\sqrt{\mu^2 - 1}}{\mu}$$

$$\Rightarrow |\tan \sqrt{e}x| = \left| \frac{\sin \sqrt{e}x}{\cos \sqrt{e}x} \right| = \sqrt{\mu^2 - 1}$$

$$T = 10$$

$$f(x) = f(x + 10)$$

$$K = +10$$

$$\frac{-99}{1} + 10 = \frac{10}{1}$$

$$f\left(\frac{-99}{1}\right) = f\left(\frac{10}{1}\right)$$

$$y = -\frac{1}{1}x + 1 \rightarrow -\frac{1}{1}\left(\frac{10}{1}\right) + 1 = \frac{1}{1}$$

$$f(10, \omega) = \frac{1}{1}$$