

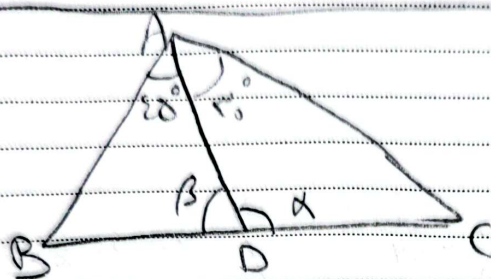
ش	ی	د	س	چ	پ
۱	۲	۳	۴	۵	۶
۷	۸	۹	۱۰	۱۱	۱۲
۱۳	۱۴	۱۵	۱۶	۱۷	۱۸
۱۹	۲۰	۲۱	۲۲	۲۳	۲۴
۲۵	۲۶	۲۷	۲۸	۲۹	۳۰

ملک نامدار

2024 ۱۴۰۳
August
Wednesday 21

مرداد
۳۱
چهارشنبه
۱۶ صفر ۱۴۴۶

$$\cos \alpha = \frac{OT}{OB} = \frac{1}{OB}$$



$$\frac{x}{\sin \alpha} = \frac{r}{\frac{1}{r}}$$

$$r \sin \alpha \cdot r \rightarrow AC$$

$$\sin \alpha = \sin \beta$$

$$\frac{AB}{AC} = \frac{4 \sin \beta r}{\frac{r \sin \beta \cdot r}{4 \sqrt{r}}} = \frac{16}{4 \sqrt{r}} = \frac{4 \sqrt{r}}{r} = \sqrt{r}$$

$$\frac{x}{\sin \beta} = \frac{4}{\frac{\sqrt{r}}{r}} = \frac{4 \sin \beta \cdot r}{\sqrt{r}} \rightarrow AB$$

$$\frac{1}{r} = \beta \left| \begin{array}{c} -\frac{\sqrt{r}}{r} \\ \frac{1}{r} \end{array} \right|$$

$$\frac{1}{r} = \alpha \left| \begin{array}{c} \frac{1}{r} \\ \frac{\sqrt{r}}{r} \end{array} \right| \quad C \left| \begin{array}{c} 0 \\ -1 \end{array} \right|$$

$$\frac{1}{r} \sin \beta \cdot OB \times OC = \frac{\sqrt{r}}{2}$$

$$\frac{1}{r} \sin \alpha \cdot OA \times OD =$$

$$\frac{1}{r} \sin \alpha \cdot OA \times OB = \frac{1}{r}$$

$$AC = \sqrt{\left(\frac{1}{r}\right)^2 + \left(\frac{\sqrt{r}}{r}\right)^2} = \sqrt{r + \sqrt{r}}$$

$$AB = \sqrt{\left(\frac{1}{r} + \frac{\sqrt{r}}{r}\right)^2 + \left(\frac{\sqrt{r}}{r} - \frac{1}{r}\right)^2} = \sqrt{r}$$

$$BC = \sqrt{\left(\frac{\sqrt{r}}{r}\right)^2 + \left(-\frac{r}{r}\right)^2} = \sqrt{r}$$

جهانی مسجد

$$\frac{1}{2} + \frac{1}{r} + \frac{\sqrt{r}}{2} = \frac{r + \sqrt{r}}{r}$$

Correct

$$\sqrt{r} + \sqrt{r} + \sqrt{r + \sqrt{r}}$$

Correct

$$\frac{1}{r} \times 1.9^{17} \times 1.9^{14} \propto \frac{1}{r} = \frac{12}{2} = 6$$

$$\frac{1.9^{17}}{1.9^2} \times \frac{1.9^{14}}{1.9^{10}} = 12$$

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

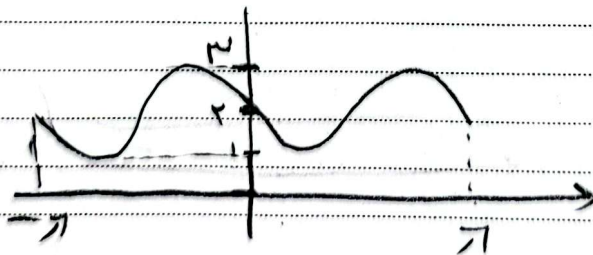
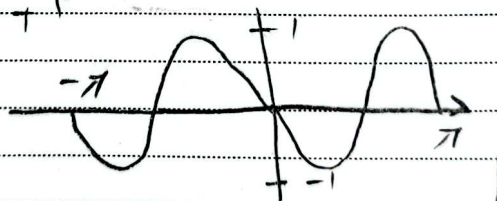
$$\cos^2 \alpha (2 \cos^2 \alpha - 1) + \sin^2 \alpha (-2 \sin^2 \alpha + 1) = 1$$

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

$$\text{الف) } -2 \sin \alpha \cos \alpha + 2$$

$$= -\sin 2\alpha + 2$$

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

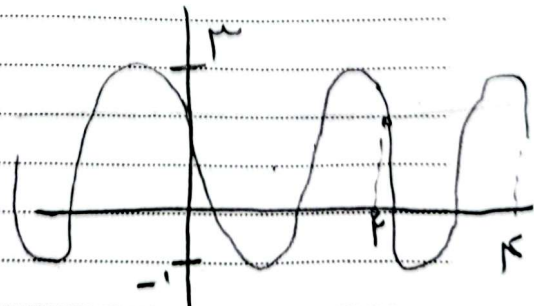


$$\text{ب) } 2 \cos(2\pi n + \frac{\pi}{2}) + 1$$

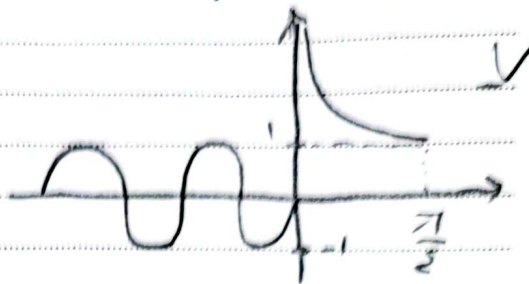
$$= 2 \sin 2\pi n + 1$$

$$|-2| + 1 = 3 \text{ max } \frac{2\pi}{T} = 2 \Rightarrow T = \pi$$

$$-|-2| + 1 = -1 \text{ min}$$



$$f(x) = \begin{cases} C \cdot \cos x & 0 < x < \frac{\pi}{2} \\ \sin x & x \leq 0 \end{cases}$$



$$x \in [-1, +\infty)$$

$$a + b \sin(cx) \cos(cx) \quad c > 0$$

$$a + \frac{b}{r} \sin(rx) \cos(rx)$$

$$\frac{b}{r} \sin(rx) + a$$

$$\omega = \frac{\delta \pi}{1.} = -\frac{\pi}{1.} = \frac{1}{8} \pi$$

$$\frac{1}{rc} = \frac{1}{0} \Rightarrow c = \frac{1}{0}$$

$$\begin{cases} \left| \frac{b}{r} \right| + a = 2 \\ -\left| \frac{b}{r} \right| + a = 0 \end{cases} \Rightarrow \begin{cases} 2a = 2 \\ a = 1 \end{cases}$$

$$\left| \frac{b}{r} \right| = 1 \Rightarrow b = \pm 1$$

$$\frac{1 \times \frac{1}{8} \pi}{1} = a$$

$$b \sin\left(\frac{1}{r} x\right) + 1 = 2$$

$$f(x) = a \sin bx + c \quad \omega = \pi \quad \frac{1}{b} = \pi$$

$$b = \frac{1}{\pi} \quad b > 0$$

$$|\tan \alpha|$$

$$\tan \alpha = \sqrt{1}$$

$$r \cos \theta = 1$$

$$|a| + c = 2$$

$$|a| = 1$$

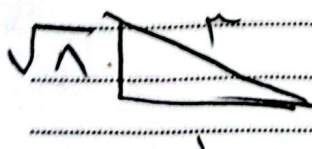
$$\cos \theta = \frac{1}{r}$$

$$-|a| + c = -2$$

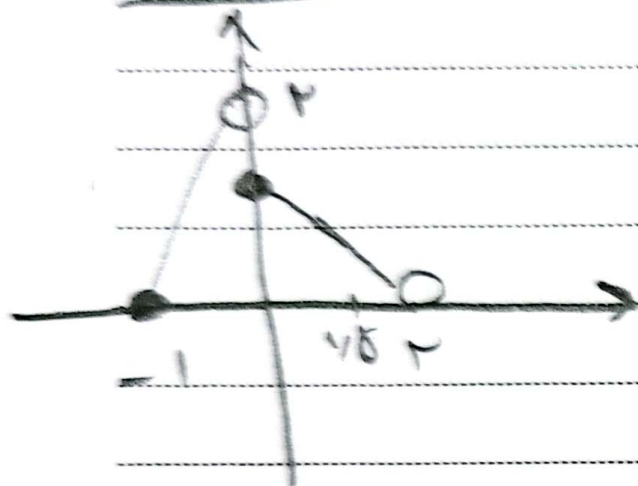
$$a < 0$$

$$2c = -2$$

$$a < 0$$



$$c = -1$$



$$f(-\infty, 0)$$

$$f(-\infty, -\frac{1}{r})$$

$$\begin{vmatrix} -1 & 0 \\ 0 & 1 \end{vmatrix}$$

$$\begin{vmatrix} 0 & 1 \\ 1 & 1 \end{vmatrix}$$

$$\begin{vmatrix} 0 & 1 \\ 1 & 1 \end{vmatrix}$$

$$\begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix}$$

$$Yx + 1$$

$$\frac{-1}{r}x + 1$$

$$\frac{-1}{r}x \frac{r}{r} + 1 = \frac{-r}{r} + \frac{r}{r} = \frac{-1}{r}$$