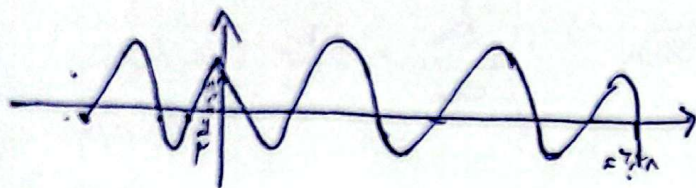


$$-1 \sin(\pi - \pi) + 1 = -1 \sin(\pi) + 1$$

$$T = \pi$$

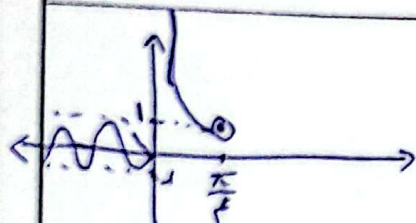
(الف)



$$T = \pi$$

مجموعه تمام جوابات را در (از اینجا) T بنویسید

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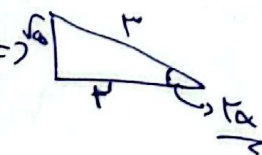
$$R_f \in [-1, +\infty)$$

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$$T = \frac{\pi}{b} = \pi \rightarrow b = 1 / a = -1 / c = -1 / | \tan \alpha | = \frac{1 \tan \alpha}{1 - \tan \alpha} \Rightarrow$$

$$-1 \cos 2\alpha - 1 = 0 \Rightarrow -1 \cos 2\alpha = 1 \Rightarrow \cos 2\alpha = -1 \Rightarrow 2\alpha = \pi \Rightarrow \alpha = \frac{\pi}{2}$$

$$| \tan \alpha | \Rightarrow \frac{\sqrt{3}}{1}$$



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$$T_1 = \frac{\pi}{c} / T_2 = \frac{\pi}{c} / T_3 = \frac{\pi}{c} = \frac{\pi}{c} / T_4 = \frac{\pi}{c} \Rightarrow \frac{\pi}{c} = \pi$$

$$c = \frac{\pi}{\pi} / \frac{\pi}{\pi} \Rightarrow f(\frac{\pi}{\pi}) = a + b(0)(\infty) \Rightarrow \frac{a - \pi}{\pi} / \frac{\pi}{\pi} = 1$$

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

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$$f(-\pi, \omega) \Rightarrow f(\pi, \omega) \Rightarrow f(+\pi, \omega) = \frac{1}{\pi}$$

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