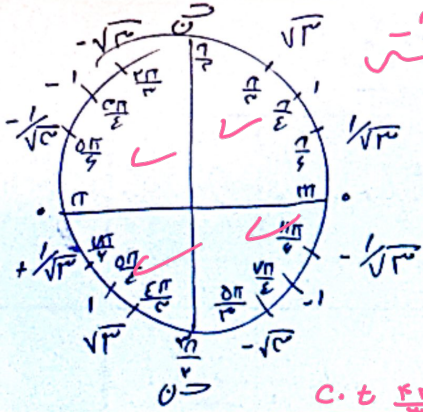


۱۹۱۷۵۵ افزینا خوب نوشت



$$C \cdot \sin \frac{\pi}{4} = C \cdot \sin 45^\circ = \frac{\sqrt{2}}{2}$$

$$\cos(\sin \theta) + \sin(\cos \theta)$$

$$\cos(0) + \sin\left(\frac{1}{\sqrt{2}}\right)$$

c) $1 + \frac{1}{\sqrt{2}}$

$$\cos \frac{\pi}{4} + \cos \frac{\pi}{4}$$

$$\sin \frac{\pi}{4}$$

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

$$-\cos \frac{\pi}{4} + \sin \frac{\pi}{4}$$

$$\cos \frac{\pi}{4}$$

$$-\frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} = 0$$

$$\sin \frac{\pi}{4} + \cos \frac{\pi}{4}$$

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

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

$$f(n) \begin{cases} n^2 + \epsilon n & n \text{ زوج} \\ n^2 + \epsilon n & n \text{ فرد} \end{cases} \Rightarrow a^2 + \epsilon a = C a + a^2 - \epsilon a = a^2 - \epsilon a$$

$$a) \cdot c) a^2 - \epsilon a$$

$$f(1) = \begin{cases} 1 + \epsilon = 0 \\ 1 + \epsilon = 0 \end{cases}$$

$$f(n) \begin{cases} n^2 - b & |n+1| \geq 1 \\ a + \epsilon n & -1 \leq n \leq 1 \end{cases}$$

$$1n - b = a - 4$$

$$a + b = \sqrt{2}$$

$$y = \frac{1}{n^2 + \epsilon n + \epsilon}$$

$$n^2 + \epsilon n + \epsilon = 1$$

$$n \neq \begin{cases} -1 \\ 0 \end{cases}$$

$$y = \frac{1}{n^2 - \epsilon n}$$

$$n^2 - \epsilon n = 0$$

$$n \neq 0, \epsilon$$

$$y = \frac{\sqrt{4-cx}}{\sqrt{4cx-c}} \Rightarrow 4cx \geq 0$$

$$4cx - c \geq 0 \Rightarrow cx \geq \frac{c}{4}$$

$$\frac{1}{4} \leq x \leq 1 \Rightarrow \text{Domain} = \left[\frac{1}{4}, 1\right]$$

$$y = \sqrt{xc-1} + \sqrt{x-1}$$

$$xc-1 \geq 0 \Rightarrow x \geq \frac{1}{c}$$

$$x-1 \geq 0 \Rightarrow x \geq 1$$

$$\text{Domain} = \left[\frac{1}{c}, \infty\right)$$

$$\sqrt{9x-a} + \sqrt{b-5x} = y$$

$$9x-a \geq 0 \Rightarrow x \geq \frac{a}{9}$$

$$b-5x \geq 0 \Rightarrow x \leq \frac{b}{5}$$

$$\frac{a}{9} \leq x \leq \frac{b}{5}$$

$$\frac{x^2 - 5x - 8x + 4}{x^2 + 5x - 8x - 4} = \frac{(x-1)(x-4)(x+1)}{(x+1)(x+4)(x-4)}$$

$$x \neq -1, 4$$

$$\text{Domain} = (-\infty, -1) \cup (-1, 4) \cup (4, \infty)$$

$$\frac{x^2 - 5x - 4}{x^2 - 10x + 44} = \frac{(x-1)(x+1)}{(x-4)(x-11)}$$

$$x \neq 4, 11$$

$$\text{Domain} = (-\infty, 4) \cup (4, 11) \cup (11, \infty)$$

$$y = \sqrt{[x]-8} \Rightarrow [x] \geq 8$$

$$[x] \geq 8 \Rightarrow x \geq 8$$

$$\text{Domain} = [8, \infty)$$

$$y = \sqrt{[x]-2} \Rightarrow [x] \geq 2$$

$$[x] \geq 2 \Rightarrow x \geq 2$$

$$\text{Domain} = [2, \infty)$$

$$[x] \geq 2 \Rightarrow x \geq 2$$

$$[x] \leq 2 \Rightarrow x \leq 2$$

$$\text{Domain} = \{2\}$$

$$\frac{x+1}{|x-1|} \geq \frac{-1}{-4+1} = \frac{1}{3}$$

$$\frac{x-1}{(x+1)^2} \geq \frac{-1}{-1+1} = \frac{1}{2}$$

$$\text{Domain} = [1, 4] \cup \{c\}$$

مطلوب