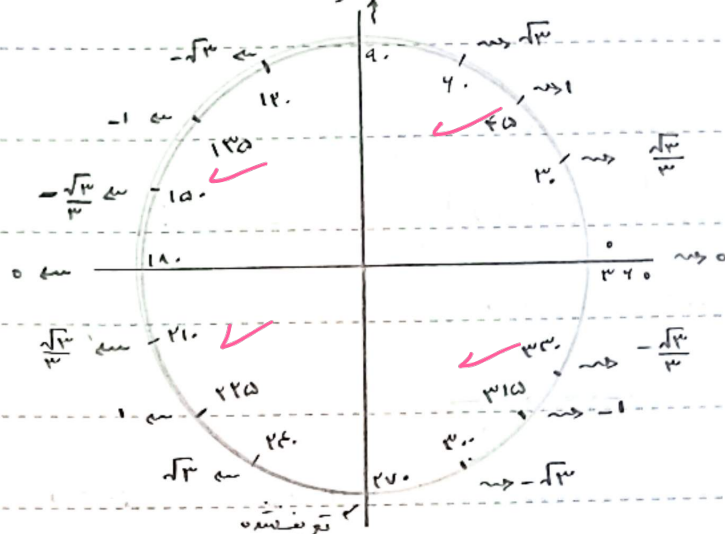


نقطه اصلی هلیف شماره ۲ یازدهم دختر ۲

تعریف شماره



$$\tan x = \frac{\sin x}{\cos x}$$

$$1- \sin \frac{\pi}{4} + \cos \frac{\pi}{4} + 2 \tan \frac{\pi}{4} \rightarrow \frac{1}{2} = 1 - \frac{1}{2} = \frac{1}{2}$$

$$2- \cos \frac{\pi}{4} + \sin \frac{\pi}{4} - 3 \sin \frac{\pi}{4} \rightarrow \frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2} - \frac{3\sqrt{2}}{2} = -\frac{\sqrt{2}}{2}$$

$$3- \cot \frac{\pi}{4} + 3 \cot \frac{\pi}{4} - 2 \tan \frac{\pi}{4} \rightarrow -\frac{\sqrt{2}}{2} + \frac{3\sqrt{2}}{2} - \frac{2\sqrt{2}}{2} = \frac{\sqrt{2}}{2}$$

$$4- \cos(\sin \frac{\pi}{4}) + \sin(\cos \frac{\pi}{4}) \rightarrow 1 = 1$$

$$5- f(x) = \begin{cases} x^2 + 5x & x > a \\ 2x + a + 2 & x \leq a \end{cases} \quad x=a \quad a^2 + 5a = 2a + 2 \rightarrow a^2 + 3a - 2 = 0$$

$$(a+2)(a-1) = 0 \rightarrow a = -2 \text{ or } a = 1$$

$$(a > 0) \rightarrow a = 1$$

$$f(1) = x^2 + 5x \rightarrow 1 + 5 = 6$$

$$6- f(x) = \begin{cases} 2x^2 - b & |x+1| \geq 2 \\ a + 2x & -2 \leq x \leq -1 \end{cases} \quad x+1 \geq 2 \rightarrow x \geq 1 \\ x+1 \leq -2 \rightarrow x \leq -3$$

$$x = -3 \rightarrow 18 - b = a - 4 \rightarrow a + b = 22$$

Date : / /

						
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ب) $y = \sqrt{x[n] - a}$ $x[n] - a \geq 0 \rightarrow [n] \geq \frac{a}{v} \rightarrow x \geq x_1 \quad (x_1 = D_y [x_2 + \infty])$

① $x+1 \geq 0 \rightarrow x \geq -1$

(iv) $4 - x > 1 \rightarrow 4 > 1 + x$

① $|x - \mu| > 0 \rightarrow$ $x - \mu > 0 \rightarrow x > \mu$
 $x - \mu < 0 \rightarrow x < \mu$



ب) $y = \sqrt{[x] - x} + \sqrt{x - [x]}$ $0 \leq y \leq 1$

① $[n] - \epsilon > 0 \rightarrow [n] > \epsilon \rightarrow [\epsilon, +\infty)$ / ② $r - [n] > 0 \rightarrow r > [n] \rightarrow (-\infty, r)$

