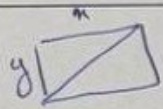


$$\frac{\omega + a}{r} = \frac{\sqrt{5}\omega + 1}{r} \quad \text{با } r = \sqrt{5}\omega + 1 \rightarrow \alpha = \sqrt{5}\omega + 1 \quad \frac{r + \sqrt{5}\omega}{r} = \frac{1 + \sqrt{5}\omega}{r}$$

$$\frac{s_r}{s_1} = \frac{(1 + \sqrt{5}\omega + 1)^r}{\omega \times r} = \frac{1 + \sqrt{5}\omega + 1}{\omega}$$



$$\frac{\sqrt{x^2 + y^2}}{n} = \frac{1 + \sqrt{5}\omega}{r} \rightarrow \frac{x^2 + y^2}{n^2} = \frac{1 + \sqrt{5}\omega}{r} \rightarrow 1 + \frac{y^2}{n^2} = \frac{1 + \sqrt{5}\omega}{r} \rightarrow \frac{y^2}{n^2} = \frac{1 + \sqrt{5}\omega}{r} - 1$$

$$\frac{y^2}{n^2} = \frac{1 + \sqrt{5}\omega - r}{r} = \frac{1 + \sqrt{5}\omega}{r} \rightarrow \left(\frac{y}{n}\right)^2 = \frac{1 + \sqrt{5}\omega}{r} \rightarrow \left(\frac{y}{n}\right)^2 = \frac{1}{1 + \sqrt{5}\omega}$$

$$r\alpha^r + \alpha_r = \begin{cases} \alpha = 0 \\ \alpha = -r \end{cases} \quad r \nmid -1 + (-\infty, -r] \cup [0, +\infty) \quad r - r\alpha = r, \quad r\alpha = \frac{r}{r} = 1$$

$$\textcircled{1} n(r) = (-\infty, -r] \cup [0, \frac{r}{r}]$$

$$r\alpha^r + \alpha_r = r + 9\alpha^r - 12\alpha \quad \forall \alpha^r - 12\alpha + r \quad \begin{cases} \alpha = r\alpha \\ \alpha = \frac{r}{r} \checkmark \end{cases}$$

$$\frac{\alpha + 1}{\alpha} = \frac{\frac{r}{r} + 1}{\frac{r}{r}} = \frac{1 + r}{r} = \frac{1 + r}{r} \checkmark$$

$$(\sqrt{n+1})(\sqrt{n-1})(r - \sqrt{n-1}) = (\sqrt{n+1})(\sqrt{n-1})(\sqrt{n-1} + r) = (n+1)(\sqrt{n-1} + r)(r - \sqrt{n-1})$$

$$r(n - n\sqrt{n-1} - r + \sqrt{n-1} - n\sqrt{n-1} + n\sqrt{n-1} - r\sqrt{n-1} + r) = -n^2 + 11n - 1$$

$$n+1, n-1 \in \mathbb{Q}$$

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$$\textcircled{1} n(r) \quad n \gg 1$$

$$\begin{aligned} n &= 12 + 5\sqrt{3} \checkmark \\ n &= 12 + 5\sqrt{3} \alpha \end{aligned}$$

$$r - n, r \geq n$$

$$r - \sqrt{r-n} \neq, \quad r \neq r-n \quad n \neq -r \quad \sqrt{r-n} \neq, \quad n \neq r$$

$$(r - \sqrt{r-n})(\omega \sqrt{r-n}) - (\sqrt{r-n} + r)(\omega \sqrt{r-n}) = (r-n)(\sqrt{r-n} + r)(r - \sqrt{r-n})$$

$$\text{با } \sqrt{r-n}, \quad \omega n - 1 + \omega n - 1 - \omega \sqrt{r-n} = r - n^2 \quad n^2 + 1 - n - r = 0$$

$$(n+r)(n-r) \quad \begin{cases} n = -1 \checkmark \\ n = r\alpha \end{cases}$$

$$\frac{1}{x^t} + \frac{1}{(1-x)^t} = \frac{14}{9} \rightarrow \frac{(1-x)^t + x^t}{x^t(1-x)^t} = \frac{14}{9} \rightarrow \frac{r(x^t - x) + 1}{(x^t - x)^t} = \frac{14}{9} \xrightarrow{x^t - x = a} \frac{ra + 1}{a^t} = \frac{14}{9}$$

$$14. \alpha^2 = 1/\alpha + 4 \rightarrow \alpha = \frac{x}{1} \rightarrow x^2 - 1 = \frac{x}{1} \rightarrow \frac{1 + \sqrt{17}}{2} \rightarrow 1$$

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

$-x^4 + 6x^3 + 9x^2 - 10x + 7$
 $x_1 = -\infty$
 $x_2 = 1$
 $x_3 = 2$
 $(-\infty, 1) \cup [2, \infty)$ (1)

$$-n^r + 4n - 1 \geq 0 \quad \begin{matrix} n=r \\ n=f \end{matrix} \quad \begin{matrix} r & f \\ + & - \end{matrix} \quad [r, f] \text{ (iv)} \quad n+r \geq n, + \text{ (v)}$$

① جواب: $\{4\}$

$$\frac{14-x}{x} = x^2 + 1$$

$$14-x = x^3 + x$$

$$14 = x^3 + 2x$$

$$x^3 + 2x - 14 = 0$$

$$x = 2 \quad y = 4$$

$$\frac{14-x}{x} = |x+1| + |x-1|$$

ماض $\rightarrow \sqrt{(v+c)^2 - (\omega-v)^2} = v\sqrt{10}$

$\frac{1}{r} n_1 r = r - n$
 $n = 0$
 $g = r$

$$\sqrt{x^x + nx} = \sqrt{(n-x)^x} = |n-x|$$

$$\begin{aligned} s_1 &= \frac{K \times K}{P} = K \\ s_2 &= \frac{K \times K}{P} = K \end{aligned} \quad \left\{ \begin{array}{l} K + K = 2K \end{array} \right.$$

$$\frac{1}{x} + \frac{1}{x+9} = \frac{1}{x-}$$

$$(n+q)^r + r \cdot n = n^r + q \cdot n \quad r \cdot n + 1 + r \cdot n = n^r + q \cdot n \quad n^r - r(n-1) \dots (n-r+1)(n-r) =$$

~~$\pi = -\omega$~~