

۲۰ بیان مسائلیان تکمیلی آریزیدو

$$f_{n-1} \quad n \geq \omega \rightarrow \sqrt{n} \xrightarrow{n \geq \omega} n \geq 0 \rightarrow \boxed{n \geq \omega} \quad (۲) \textcircled{۱}$$

$$f_{n+2} \quad n < \omega \rightarrow \sqrt{n+2} \xrightarrow{n < \omega} f_{n+2} > 0 \rightarrow n \geq -\frac{f}{2} \rightarrow \boxed{-\frac{f}{2} \leq n < \omega}$$

$$\rightarrow \boxed{P_f = \left[-\frac{f}{2}, +\infty\right)}$$

$$\frac{f(n+1)f_{n+1}}{(f_{n+1})^2} = \frac{f(n+1)^2}{(f_{n+1})^2} = \frac{f}{f_{n+1}} \quad (۲) \textcircled{۲}$$

$$f_{n+1} \neq 0 \rightarrow n \neq -\frac{1}{f} \rightarrow \boxed{P_f = \mathbb{R} - \left\{-\frac{1}{f}\right\}}$$

مجموع طریب مفروضه می توان از مجموع بار

$$\frac{a+2}{1+b} = f \quad \frac{-a+2}{-1+b} = 1 \Rightarrow \frac{(n-1)(n+1)(n+2)}{(n-1)(n+1)} = n+2 = n+2c \Rightarrow \boxed{c=f} \quad (۲) \textcircled{۳}$$

$$\frac{a+2}{1+b} = f \quad \frac{-a+2}{-1+b} = 1 \Rightarrow b+1 = f-b \Rightarrow \begin{matrix} b = \frac{1}{f} \\ a = \frac{1}{f} \end{matrix} \quad \boxed{c+b = f, \omega} \quad (۲) \textcircled{۴}$$

$$\frac{(n-1)(n+1)}{n^2+n+b} = \frac{n+1}{n-c} \quad \begin{matrix} \text{از اینجاست که خارج می شود} \rightarrow 1+a+b=0 \rightarrow \boxed{a+b=-1} \\ \text{از اینجاست که باقی می ماند} \rightarrow n-c=n-1 \rightarrow \boxed{c=1} \end{matrix} \quad \boxed{a+b+c=0} \quad (۲) \textcircled{۵}$$

$$(n-2)^2(n) \cdot (-n-2)^2(-n) = (n^2(n+2)(n)) \cdot (n^2(n+2)(n)) = -1 \quad (۲) \textcircled{۶}$$

$$\left. \begin{matrix} 1-2n = -1 \rightarrow n=1 \rightarrow \sqrt{1} = 1 \\ 1-2n = 3 \rightarrow n=-1 \rightarrow \sqrt{1+2} = 1 \end{matrix} \right\} \quad \boxed{f(-1)+f(1) = \omega} \quad (۲) \textcircled{۷}$$

$$n + \sqrt{n} = f \quad \text{! در اینجا } n \text{ و } \sqrt{n} \text{ دو عدد صحیح هستند} \rightarrow n = f \rightarrow f+1 = \boxed{f+1} \quad (۲) \textcircled{۸}$$

$$(n-1)^p + (n-1) + (1-n)^p + (1-n) \neq 0 \checkmark$$

(r) ①

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(q) ②

(r)

$$\frac{b}{f} = \frac{r_a}{f} = 1 \rightarrow b = f, a = \frac{f}{p}$$

$$b - fn \geq 0 \rightarrow b \geq fn \rightarrow \frac{b}{f} \geq n$$

$$fn - ra \geq 0 \rightarrow fn \geq ra \rightarrow n \geq \frac{ra}{f}$$

$$r\sqrt{f-f} + rk - r - \sqrt{f-f} \quad rk = k \rightarrow \frac{rk = -r}{k = -1}$$

$$ra - \frac{b}{r} - k = f - r + 1 \quad \checkmark$$

$$rn + r \geq 0 \rightarrow n \geq -1 \quad / \quad m - n \geq 0 \rightarrow m \geq n \rightarrow m = \checkmark$$

(b)

(r)

$$r + n - r\sqrt{r} = 4\sqrt{r} \rightarrow n = \sqrt{r} - r \rightarrow n + m = \sqrt{r} + \omega \checkmark$$