

$$a^2 - 2 = a^2 + 2a$$

$$a = -2$$



(۲)

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$$x + b = \frac{x + a}{x - b} \rightarrow b = -1 \rightarrow a = 11$$

$$\frac{1+11}{2+1} = 2$$



(۲)

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$$x - a + b = 0 = x^2 + x + b$$

$$-2a = 20$$

$$a = -9, b = -1 \rightarrow \frac{a}{b} = \frac{-9}{-1} = 9$$



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$$-x - a + b = 0$$

$$-x + b = a$$

$$\frac{b}{x} = -1 \rightarrow b = -x, a = -1 \rightarrow a + b = -1 - x$$



(۲)

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$$m^2 - 2 < 0 \rightarrow m^2 < 2 \rightarrow m < \sqrt{2} \cup m > -\sqrt{2}$$

۱) $a^2 + ma + 1 \rightarrow$ ریشه حقیقی نداشت
 $\Delta < 0 \rightarrow m^2 - 4 < 0 \rightarrow m^2 < 4 \rightarrow -2 < m < 2$ (I)

$$(I) \cup (II) \rightarrow -2 < m < 2$$

(۱/۵)

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۲) $a^2 + ma + 1 \rightarrow$ ریشه مختلف $a=1$ است

$$\begin{cases} \Delta = 0 \\ a = \frac{b}{a} = 1 \end{cases} \rightarrow m^2 - 4 = 0 \rightarrow m = \pm 2, a = \frac{-m}{2} = 1 \rightarrow m = -2$$
 (II)

$$r - \frac{1}{n^r} \geq 0 \rightarrow n \neq 0 \quad (-\infty, -\frac{1}{r}] \cup [\frac{1}{r}, +\infty)$$

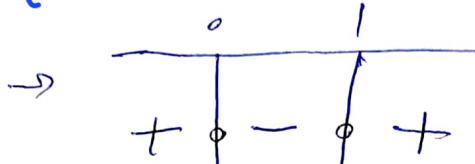
$$r \geq \frac{1}{n^r} \rightarrow n^r \geq \frac{1}{r} \rightarrow n \geq \frac{1}{r} \cup n \leq -\frac{1}{r}$$

~~$$n^r \geq \frac{1}{r} \rightarrow n \geq \frac{1}{r} \cup n \leq -\frac{1}{r} \rightarrow P = [-\frac{1}{r}, \frac{1}{r}] - \{0\}$$~~

(2)

$$mn^r + r m(m+1) \geq 0 \rightarrow r m^r - r m = 0 \rightarrow m = 0$$

$$mn^r + r m(m+1) \geq 0 \rightarrow \begin{cases} \Delta \leq 0 \\ m > 0 \rightarrow 2 \text{ قيمتين} \end{cases}$$



$$\rightarrow m \in [1, +\infty) \cup \{0\}$$

$$\Delta \leq 0 \rightarrow r m^r - r m \leq 0 \rightarrow r m(m-1) \leq 0 \rightarrow \frac{1}{+|-|-+} \rightarrow m \in (0, 1]$$

$$m \in (0, 1]$$

$$\leftarrow R \text{ ايجاب } \leftarrow f(x) = 1 \leftarrow \text{نقطه } m = 0$$

$$l^k + 1 = r + k$$

$$k \neq 0$$

$$\rightarrow a + k = \frac{1}{r}$$

$$r_{n-1} = 0$$

$$n = \frac{1}{r} = a$$

(2)

$$\left. \begin{aligned} -r + b &= -ra + r \\ r^2 + b &= \frac{a}{a} \rightarrow b = -r \end{aligned} \right\} \rightarrow a = r$$

$$\rightarrow r + r = \omega$$

(2)

~~$$a - r = \frac{1}{r} - r$$~~

$$r = ra^r + ra$$

$$\rightarrow ra^r + ra - r = 0$$

$$\rightarrow a = \frac{r}{r} \text{ و } \frac{r}{r}$$

$$a = -r \text{ و } 1$$

(2)

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(0)

v

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