

$$\left. \begin{aligned} f(a) &= a^2 + ka \\ f(a) &= a^2 - k \end{aligned} \right\} \begin{aligned} a^2 + ka &= a^2 - k \rightarrow a = -k \end{aligned}$$

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$$k = \frac{k+a}{k-b} \rightarrow k-kb = k+a \rightarrow a+kb = k \rightarrow a-k = k \rightarrow a = 2k$$

$$\Downarrow$$

$$k = k+b \rightarrow b = 0 \Rightarrow f(m) = \frac{m^2+1}{m^2+1} \rightarrow f(1) = \frac{1+1}{1+1} = \frac{2}{2} = 1$$

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$$\begin{aligned} x = -1 &\rightarrow 1-a+b = 0 \rightarrow b-a = -1 \rightarrow kb - ka = -1 \\ x = k &\rightarrow k^2 + ka + b = 0 \rightarrow ka + b = -k^2 \rightarrow \frac{ka+b}{ab} = \frac{-k^2}{-k} \rightarrow \frac{b-a}{a} = k \rightarrow b-a = ka \rightarrow b = a+ka = a(1+k) \end{aligned}$$

$$\Rightarrow f(m) = \frac{k_m+1}{k_m^2 - k_m - 1} \rightarrow f(1) = \frac{k+1}{k^2 - k - 1} = \frac{2}{-1-k}$$

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$$\begin{aligned} x = 1 &\rightarrow 1-a+b = 0 \rightarrow b-a = -1 \rightarrow b = a-1 \rightarrow b = k-1 = -k \\ \Delta = 0 &\rightarrow a^2 + 17b = 0 \rightarrow a^2 + 17(k-1) = 0 \rightarrow a^2 + 17k - 17 = 0 \rightarrow a^2 + 17a + 17k = 0 \\ (a+17)^2 &= 0 \rightarrow a = -17 \\ a+b &= -17 - k = -17 \end{aligned}$$

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معادله دوم مربع

$$1 = 1 \rightarrow 1+m+1 = 0 \rightarrow m = -2 \quad (1)$$

معادله دوم مربع

$$\Delta < 0 \rightarrow m^2 - 4 < 0 \rightarrow (m-2)(m+2) < 0 \rightarrow \begin{array}{c} -2 \quad 2 \\ + \quad - \quad + \\ \hline \end{array} \rightarrow (-2, 2) \quad (2)$$

$$(1) \cup (2) = [-2, 2] = m$$

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$$k \leq \frac{1}{n^2} > 0 \rightarrow k > \frac{1}{n^2} \rightarrow r \geq \frac{1}{n} > -r \rightarrow \frac{1}{r} > n > -\frac{1}{r} \quad (1)$$

$$(2) \rightarrow n \neq 0 \leftarrow \text{تجزیه سیمپلش}$$

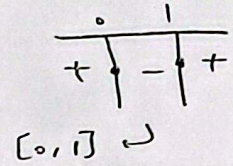
$$(1) \wedge (2) = \left[-\frac{1}{r}, \frac{1}{r}\right] - \{0\}$$

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$$m \times r + r \times m + 1 \geq 0 \rightarrow a > 0 \rightarrow m > 0$$

$$\Delta \leq 0 \rightarrow r_m^2 - 4m \leq 0 \rightarrow r_m(m-1) \leq 0$$

$$(0, +\infty) \wedge [0, 1] = [0, 1] = m$$



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$$n = \frac{1}{r} \rightarrow r + k = \frac{r}{1+r} \rightarrow k = 0$$

$$r_{n-1} \neq 0 \rightarrow r_n \neq 1 \rightarrow n \neq \frac{1}{r} \left. \begin{array}{l} \\ \\ \end{array} \right\} a = \frac{1}{r}$$

$$a + k = 0 + \frac{1}{r} = \frac{1}{r}$$

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$$n=1 \rightarrow \frac{a-r^0}{r+r} = r+b \rightarrow r+b=1 \rightarrow b=-r$$

$$n = \frac{-r}{r} \rightarrow -ra+r = -r+b \rightarrow \cancel{r}+ka=r \rightarrow ka=r \rightarrow a=r$$

$$a-b = r - (-r) = (a)$$

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$$n=r \rightarrow r a^r + r a = r \rightarrow a^r + a = 1 \rightarrow a^r + a - 1 = 0$$

جمع درایب منفی

$$a=1$$

$$a=-r$$

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