

دم بیان A - اید عل سیرایش

به نام خدا

کلیف ۲۶

$1 < x < 2 \rightarrow$ اید ۳ = ریحا \rightarrow $\left. \begin{matrix} 1 - a + b = 0 \\ 9 - 2a + b = 0 \end{matrix} \right\} \rightarrow \left. \begin{matrix} 1 - 2a = 0 \rightarrow a = \frac{1}{2} \\ 1 - 4 + b = 0 \rightarrow b = 3 \end{matrix} \right\} \rightarrow a + b = \frac{1}{2} + 3 = \frac{7}{2}$ ✓

$(x - m) = 0 \rightarrow -1 - 2m = 0 \rightarrow m = -\frac{1}{2}$ ✓

$4k - 1 + m - 1 = 0 \rightarrow m = 9 - 4k$ $\circ \Delta k - 1 + m - 1 < 0 \rightarrow \Delta k - 1 + 9 - 4k - 1 < 0 \rightarrow k < 2$ ✓

$\rightarrow k \in \mathbb{N} \rightarrow k = 1$ ✓ $\rightarrow (-1) \times 4 + m - 1 = 0 \rightarrow -4 + m = 0 \rightarrow m = 4$ ✓

$\rightarrow \frac{\Delta}{-1} + 1 = -1\Delta + 1 = -14$ ✓

$$y = -\frac{1}{r}u^r + ru + y \rightarrow 0 = u^r + ru - r \rightarrow u \begin{cases} -r \\ +y \end{cases} \frac{u | -r \quad y}{-1 \quad +1}$$

$$\frac{iA u = 0}{u = -1} \rightarrow -\frac{1}{r}u^r + ru + y = \frac{y}{r} \rightarrow -\frac{1}{r}u^r + ru + y = \frac{y}{r}$$

$$\rightarrow -\frac{1}{r}u^r + ru + \frac{\Delta}{r} = 0 \rightarrow u \begin{cases} \Delta \\ -1 \end{cases} \rightarrow \Delta_{-1} = y$$

$$x^r - r x^r - x + r < 0 \xrightarrow{\text{فصل } x} (x-1)(x^r - r x - r) < 0 \rightarrow (x-1)(x-r)(x+1) < 0 \quad (r) - r$$

$$\rightarrow \frac{x | -1 \quad 1 \quad r}{- \quad + \quad - \quad +} \rightarrow (a, b) = (1, r) \rightarrow \frac{1+r}{r} > r \rightarrow f(r) = (1)(-r) = -r \checkmark$$

$$\left. \begin{aligned} a-1 < 0, \Delta < 0 \rightarrow a < 1, a^r - r a + 1 - r a + r < 0 \rightarrow a^r - 4a + \Delta < 0 \\ \rightarrow (a-\Delta)(a-1) < 0 \rightarrow \frac{a | 1 \quad \Delta}{+ \quad - \quad +} \rightarrow (1, +\Delta) \end{aligned} \right\} (-\infty, 1) \cap (1, +\Delta) = \emptyset \checkmark \quad (r) - \Delta$$

$$\frac{m(m(m^r+1))}{m-r} > 0 \rightarrow \frac{m | \quad r}{- \quad - \quad +} \rightarrow (r, +\infty) \checkmark \quad (r) - r$$

$$\frac{(x-r)(x+r)(x-1)^r}{(x^r+x+1)(r-x)^r} \leq 0 \xrightarrow{\text{فصل } x} \frac{x | -r \quad 1 \quad r \quad r}{+ \quad - \quad - \quad +} \rightarrow [-r, r) \cup [r, +\infty) \checkmark \quad (r) - r$$

$$\frac{r x^r - r x}{x^r + r} < r \rightarrow \frac{x^r - r x - r}{x^r + r} < 0 \rightarrow \frac{(x-r)(x+r)}{\frac{x^r + r}{+ \quad +}} < 0 \rightarrow \frac{x | -r \quad r}{+ \quad - \quad +} \rightarrow (-r, r) \quad (r) - r$$

$$b-a = f(-r) = 4 \checkmark$$

$$-1 < \frac{2x^2 - 3x}{x+1} < 0 \rightarrow 0 < \frac{2x^2 - 2x + x + 1}{x+1} \rightarrow 0 < \frac{2x^2 - 2x + 1}{x+1} \xrightarrow{\text{مقادیر صحیح قرار دهیم}} \text{زیادتر } \Delta < 0, a > 0 \quad (2) \quad -9$$

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

$$\frac{2x^2 - 2x}{x+1} < 0 \rightarrow \frac{x(2x-2)}{x+1} < 0 \rightarrow \frac{x}{-1} \quad \frac{-1}{+} \quad \frac{0}{-} \quad \frac{1}{+}$$

$$\rightarrow (-1, +\infty) \cap \left((-\infty, -1) \cup \left(0, \frac{1}{2}\right) \right) = \left(0, \frac{1}{2}\right) \checkmark$$

$$\frac{x^2 - 1 - 2x}{x} \leq 0 \rightarrow \frac{(x-2)(x+1)}{x} \leq 0 \rightarrow \frac{x}{-1} \quad \frac{-2}{+} \quad \frac{0}{-} \quad \frac{1}{+} \quad (2) \quad -1$$

$$\rightarrow (-\infty, -1] \cup (0, 2] \checkmark$$