

به نام خدا

دم پیمان A

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$$1 < x < 2 \rightarrow \text{در اینجا } a = 3 \rightarrow \left. \begin{array}{l} 1 - a + b = 0 \\ 9 - 2a + b = 0 \end{array} \right\} \rightarrow \left. \begin{array}{l} 1 - 2a = 0 \rightarrow a = \frac{1}{2} \\ \rightarrow 1 - \frac{1}{2} + b = 0 \rightarrow b = -\frac{1}{2} \end{array} \right\} \rightarrow a + b = \frac{1}{2} - \frac{1}{2} = 0$$

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

$$4k - 1 + m - 1 = 0 \rightarrow m = 9 - 4k \quad \vee \quad 0 < k - 1 + m - 1 < 0 \rightarrow 0 < k - 1 + 9 - 4k - 1 < 0 \rightarrow 1 < k < 2$$

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

$$\rightarrow \frac{4}{-1} + 1 = -4 + 1 = -3$$

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

$$\frac{iF u = 0}{u = -1} \rightarrow -\frac{1}{r} u^r + r u + q = \frac{V}{r} \rightarrow -\frac{1}{r} u^r + r u + q = \frac{V}{r}$$

$$\rightarrow -\frac{1}{r} u^r + r u + \frac{\Delta}{r} = 0 \rightarrow u \begin{matrix} \Delta \\ -1 \end{matrix} \rightarrow \Delta_{-1} = q$$

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

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

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

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

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

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

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

$$-1 < \frac{2x^2 - 3x}{x+1} < 0 \rightarrow 0 < \frac{2x^2 - 2x + x + 1}{x+1} \rightarrow 0 < \frac{2x^2 - 2x + 1}{x+1} \quad \begin{matrix} \text{مقادیر صحیح قرار دهیم} \\ \text{زیادتر از } 0 \text{ و کمتر از } 1 \end{matrix} \quad -9$$

$$\frac{x}{-1} \quad \begin{array}{c} - \\ + \end{array}$$

$$\frac{2x^2 - 3x}{x+1} < 0 \rightarrow \frac{x(2x-3)}{x+1} < 0 \rightarrow x \quad \begin{array}{c} -1 \quad 0 \quad \frac{3}{2} \\ - \quad + \quad - \quad + \end{array}$$

$$\rightarrow (-1, +\infty) \cap \left( (-\infty, -1) \cup \left(0, \frac{3}{2}\right) \right) = \left(0, \frac{3}{2}\right)$$

$$\frac{x^2 - 10 - 3x}{x} \leq 0 \rightarrow \frac{(x-10)(x+2)}{x} \leq 0 \rightarrow x \quad \begin{array}{c} -10 \quad 0 \quad 10 \\ - \quad + \quad - \quad + \end{array} \quad -10$$

$$\rightarrow (-\infty, -2] \cup (0, 10]$$