

1, 2, 3

$$\begin{array}{c} 1 \quad 3 \\ + \phi \quad - \phi + \end{array}$$

$$\begin{aligned} x=1 &\rightarrow 1-a+b=1 \\ &\quad -a+b=-1 \\ &\rightarrow a-b=1 \end{aligned}$$

$$\begin{cases} 2a-b=9 \\ -a-b=-1 \end{cases}$$

$$\begin{aligned} x=3 &\rightarrow 9-3a+b=9 \\ &\quad 3a-b=9 \end{aligned}$$

$$\left. \begin{array}{l} 2a=1 \quad a=1/2 \\ b=3 \end{array} \right\} + = v$$

$$\Rightarrow -1 = \dots \quad -2$$

$$\begin{array}{c} 1 \quad 3 \\ + \phi \quad + \phi - \end{array}$$

$$\begin{aligned} (-1-3n)^2 &\leq 0 \quad (3n+1)^2 = 9n^2 + 1 + 6n \\ 3n &\leq -1 \\ n &= -\frac{1}{3} \end{aligned}$$

$$x=3 \rightarrow f(k-2) + m-1 = f(k-1) + m-1$$

$$\rightarrow f(k+m-9) \leq 0 \quad k=1 \quad \left\{ \begin{array}{l} m \leq 8 \\ f(k+m)=9 \end{array} \right. \quad m \leq 1$$

$$\begin{aligned} k \leq 1 \\ m \leq 8 \\ n = -\frac{1}{3} \rightarrow \frac{\delta}{-1/3} + 1 = -1f \\ \left. \begin{array}{l} k \leq 1 \\ m \leq 1 \\ n = -\frac{1}{3} \end{array} \right\} \Rightarrow \frac{n^2}{n} + k = -3 + 2 \leq -1 \end{aligned}$$

$$-\frac{1}{p} m^2 + 2m + 4 > \frac{v}{p} \rightarrow -\frac{1}{p} n^2 + 2m + \frac{\delta}{p} > 0 \Rightarrow n^2 - 4m - \delta \leq -3$$

$$(m - \delta)(n + 1) \leq 0 \rightarrow m \leq \delta, -1$$

$$\frac{\delta - 1}{-|\phi|} \quad a = -1 \quad b = \delta \quad \frac{\delta - -1}{b - a} = 9$$

$$x^2(x-3) - (x-3) \leq 0 \rightarrow (x-3)(x^2-1) \leq 0 \rightarrow (x-3)(x-1)(x+1) \leq 0$$

$$\begin{array}{c} 1 \quad 3 \\ - \phi + \quad \phi - \quad \phi + \end{array} \rightarrow (1, 3) \cup (-\infty, -1) \Rightarrow \begin{aligned} (-\infty, -1) \cap (0, +\infty) &= \emptyset \\ (1, 3) \cap (0, +\infty) &= (1, 3) \end{aligned}$$

$$L(x) = x^3 - (3x^2) - 2 + 3 \leq -3$$



$$(\alpha - 1)x^r + (\alpha - 1)x + 1 < 0 \Rightarrow b^r - r a c < 0 \Rightarrow (\alpha - 1)^r - r(\alpha - 1) < 0$$

$$\rightarrow a < \dots \Delta < \dots a - 1 < \dots \boxed{a < 1}$$

$$a^{r+1} - r a - r a + r < \dots a^r - r a + b < \dots (\alpha - 1)(\alpha - b) < \dots$$

$$\frac{1}{-r} \quad \frac{b}{-r} \quad \frac{1}{-r} \quad \frac{b}{-r}$$

$$\boxed{a < 1} \quad \boxed{a < b}$$

$$1 < a < b$$

$$\frac{m(m^r - r m)}{m - r} > 0 \Rightarrow \frac{m^r(m^r + 1)}{m - r} > 0 \Rightarrow m_2(r, +\infty)$$

$m < r \quad r = 0 \times$

$$\frac{r}{(x-r)} \frac{-r}{(x+r)} \frac{1}{(x-1)} \frac{r}{r}$$

$$\frac{-r}{(x^r + x + 1)} \frac{r}{(r - x)} \frac{r}{r}$$

$$\frac{-r}{b} \frac{1}{-1} \frac{r}{-1} \frac{r}{1}$$

$$\frac{r m^r - r m}{x^r + r} < 0 \Rightarrow \frac{r m^r - r m - r(m^r + r)}{x^r + r} < 0 \Rightarrow \frac{r m^r - r m - r m^r - 1}{x^r + r} < -1$$

$$\frac{x^r - r m - 1}{x^r + r} < 0 \Rightarrow \frac{(x-r)(x+r)}{x^r + r} < 0$$

$$\frac{-r}{+r} \frac{1}{-r} \frac{r}{+r}$$

$$(-\infty, -r] \cup [r, r]$$

$$[-r, 0] \cup [1, r] \cup [r, +\infty)$$

$$1 < \frac{r m^r - r m}{x+1} \Rightarrow \frac{r m^r - r m}{x+1} > 0 \Rightarrow \frac{r m^r - r m - r x + x + 1}{x+1} > 0$$

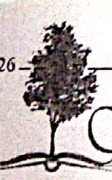
$$\frac{r m^r - r m - 1}{x+1} > 0 \Rightarrow \frac{r m^r - r m - 1}{x+1} > 0 \Rightarrow (-1, +\infty)$$

$$\frac{r m^r - r m}{x+1} < 0 \Rightarrow \frac{r m^r - r m}{x+1} < 0 \Rightarrow \frac{r m^r - r m}{x+1} < 0 \Rightarrow (-\infty, -1) \cup (0, \frac{r}{r})$$

$$x = (-r, r) \Rightarrow b - a \leq 4$$

$$\frac{r m^r - r m}{x+1} < 0 \Rightarrow \frac{r m^r - r m}{x+1} < 0 \Rightarrow \frac{r m^r - r m}{x+1} < 0 \Rightarrow (-\infty, -1) \cup (0, \frac{r}{r})$$

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$$\frac{x^2 - 10}{x} < 0 \rightarrow \frac{x^2 - 10 + 10x}{x} < 0 \rightarrow \frac{(x-5)(x+2) - 10}{x} < 0$$

$$\frac{-2 \quad 0 \quad 5}{-5 \quad + \quad -5} \rightarrow (-\infty, -2] \cup [0, +\infty)$$

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