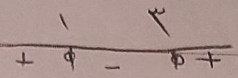


(1)



$$\Rightarrow x^2 - (x+a)^2 \Rightarrow \boxed{a^2 + 2ax + x^2}$$

(2)

$$n - \sqrt{n} \rightarrow -1 - \sqrt{n} < 0$$

$$\Rightarrow \sqrt{n} < -1 \Rightarrow n < \frac{-1}{\sqrt{}}$$

$$f(k-2) + m - 1, f(k-1) + m - 1 \leq f(k+m-1) < 0$$

$$\left. \begin{matrix} k-2 < 0 \\ k \in \mathbb{N} \end{matrix} \right\} \Rightarrow k < 1$$

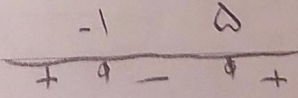
$$\downarrow f + m - 1 < 0 \Rightarrow m < 1$$

$$\frac{m}{n} + k < \frac{\Delta}{\frac{-1}{\sqrt{}}} + |s-1\Delta| + |s-1\sqrt{}$$

(3)

$$-\frac{1}{\sqrt{}} n^2 + (n+1) > \frac{V}{\sqrt{}} \Rightarrow -\frac{1}{\sqrt{}} n^2 + (n + \frac{\Delta}{\sqrt{}}) > 0$$

$$-n^2 + (n+\Delta) > 0 \Rightarrow n^2 - (n-\Delta) < 0$$



$$(-1, \Delta) \Rightarrow \Delta - (-1) = 9$$

$$x^r(x-r) = (x-r) = (x-r)(x-1)(x+1) \quad (r)$$

$$\underbrace{-\quad +\quad -\quad +}_{x > 0 \Rightarrow \text{عقود}} \xrightarrow{r} (a, b) = (1, r) \xrightarrow{\text{تقسيم}} r$$

$$\underbrace{1 - r/f}_{-f} - r + r \sqrt{-r}$$

$$\Delta < 0 \Rightarrow (a-1)^r - r^f(a-1) = (a-1)(a-1-f)$$

$$(a-1)(a-f) < 0 \quad \begin{matrix} 1 & \Delta \\ + & a - & b + \end{matrix} \Rightarrow a \in (b, \infty)$$

$$\underbrace{(a-1)}_A \Rightarrow A \rightarrow (0, f)$$

$$Ax^r + Ax + 1 < 0$$

$$Ax^r + Ax < -1 \Rightarrow A(x^r + x) < -1$$

$$\left. \begin{matrix} A > 0 \\ A < f \end{matrix} \right\} \Rightarrow Ax^r + Ax < -1 \quad \left| \begin{matrix} -A & = & -1 \\ rA & + & r \end{matrix} \right.$$

$$\left| \frac{1}{f}A - \frac{1}{r}A - \frac{1}{r}A < -\frac{1}{r} \right.$$

$$\frac{m^f + m^r}{m-f} \leq \frac{m^r(m^r+1)}{m-r}$$

$$\begin{matrix} *0 & r \\ - & + & - & + \end{matrix} \Rightarrow m \in (r, \infty)$$

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

$$\begin{matrix} -r & *1 & r & r \\ + & - & - & + & 0 & - \end{matrix}$$

$$[-r, r) \cup [r, +\infty)$$

$$\frac{r^2 - r}{n^2 + f} < r \Rightarrow \frac{r^2 - r - r}{n^2 + f} < 0 \Rightarrow \frac{r^2 - 2r}{n^2 + f} < 0$$

$$\Rightarrow r^2 - 2r - 1 < 0 \Rightarrow (r - f)(r + f) < 0$$

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

$$\Rightarrow (a, b) \rightarrow (-f, f) \Rightarrow b - a = f - (-f), \text{ 9}$$

$$-1 < \frac{x(r - f)}{n + 1} < 0$$

$$\frac{x(r - f)}{n + 1} < 0 \Rightarrow \begin{array}{c} -1 \quad 0 \quad f \\ - \quad \phi \quad + \quad - \quad \phi \quad + \end{array} \rightarrow (-\infty, -1) \cup (0, \frac{f}{r})$$

$$\frac{x(r - f)}{n + 1} > -1 \Rightarrow \frac{r^2 - fr + x + 1}{n + 1} > 0 \Rightarrow \frac{r^2 - fr + 1}{n + 1} > 0$$

$$\frac{1}{-\phi +} \rightarrow x \rightarrow (0, +\infty)$$

$$\left((-\infty, -1) \cup (0, \frac{f}{r}) \right) \cap (0, +\infty) \Rightarrow \boxed{(0, \frac{f}{r})}$$

$$\frac{r^2 - 1}{n} - r \leq 0 \Rightarrow \frac{r^2 - r - 1}{n} \leq 0$$

$$\Rightarrow \frac{(r - \Delta)(r + \Delta)}{n} \leq 0 \Rightarrow \begin{array}{c} -r \quad 0 \quad \Delta \\ - \quad \phi \quad + \quad - \quad \phi \quad + \end{array} \Rightarrow (-\infty, r] \cup (0, \Delta]$$