

۲۹ ۵/۱۵ - A ۵/۱۵ - ۵/۱۵

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

$$\begin{aligned} n s^1 &\rightarrow 1 - a + b s^1 & \begin{cases} a - b s^1 \\ r a - b s^1 \end{cases} & -1 \\ n s^r &\rightarrow 1 - r a + b s^r & \begin{cases} r a - b s^1 \\ r a s^1 \wedge a s^1 b s^r \end{cases} & -1 \end{aligned}$$

$(a + b s^1)$

۲۲ ۵/۱۵ - ۵/۱۵ - ۵/۱۵

$$\begin{aligned} x s - 1 &\rightarrow (-1 - r a) s^r \\ (1 + r a) s^1 &\rightarrow 1 + r a + 4 n s^1 + 4 n s^r \quad r n s^1 - n s^1 \quad n s^1 \frac{1}{r} \\ n s^r &\rightarrow r(k-r) + m - 1 s^0 \quad r(k-r) + m - 1 s^1 \quad r(k+r) - 1 s^r \end{aligned}$$

① $\frac{m}{n} + k < d x - r + 1 s^{-1}$ ② $\frac{m}{n} + k s^1 x - r + r s^1 - 1$

$$\begin{aligned} -\frac{1}{r} x^2 + r x + 4 &> \frac{1}{r} & -\frac{1}{r} x^2 + r x + \frac{d}{r} > 0 \quad \frac{(x-r)}{r} > x^2 - r x - d < 0 \\ (-1/r) < (a+b) & & d - (-1) < 0 & \begin{matrix} -1 & a & -r \\ + & - & + \end{matrix} \end{aligned}$$

$$\begin{aligned} x^2 (x-r) - (x-r) s &\rightarrow (x-r)(x^2-1) s \rightarrow (x-r)(x-1)(x+1) s \\ \frac{-1}{-} \frac{1}{+} \frac{r}{-} & (1, r) \cup (-\infty, -1) \rightarrow \begin{cases} (-\infty, -1) \cap (0, +\infty) = \emptyset \\ (1, r) \cap (0, +\infty) = (1, r) \end{cases} \end{aligned}$$

$$\begin{aligned} r^2 s^2 - r + r s(-r) & \\ (a-1)x^2 + (a-1)x + 1 < 0 & \quad b^r - r a c < 0 \quad (a-1)^r - r(a-1) < 0 \quad a - k < a < -d \\ a^r - r a + 1 - r a + r s a^r - 4 a + d < 0 & \quad (a-1)(a-d) < 0 \end{aligned}$$

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

$$\frac{(n-1)(n+1)(n-1)^r < 0}{(n^r + n + 1)(r-n)^r} \quad \begin{matrix} -r & 1 & r & r \\ + & - & - & + \end{matrix} \quad n \in [r, r] \cup (r, \infty) \cup$$

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

$$\begin{matrix} -r & 2 \\ + & - \end{matrix} \quad n \in (-r, r) \quad b - a < 0$$

$$-1 < \frac{r n^r - r n}{n+1} \rightarrow \frac{r n^r - r n + n + 1}{n+1} \rightarrow \frac{r n^r - r n + 1}{n+1} > 0 \quad \begin{matrix} -1 \\ - & + \end{matrix} < 0$$

$$\frac{r n^r - r n < 0}{n+1} \quad \frac{n(r n - 1) < 0}{n+1} \quad \begin{matrix} -1 & 0 & r \\ - & + & + \end{matrix} \quad (-\infty, -1) \cup (0, \frac{r}{n})$$

$$\rightarrow (0, \frac{r}{n})$$

$$\frac{n^r - 1 < 0}{n} \quad \frac{n^r - 1 - r n < 0}{n} \quad \frac{(n-1)(n+1) < 0}{n}$$

$$\begin{matrix} -r & 0 & \omega \\ - & + & - \end{matrix} \quad (-\infty, -r] \cup (0, \omega]$$