

19,52

19, 20

$n > 1 \rightarrow \frac{1}{n-1} \leq n-1 \rightarrow 1 \leq n^p - n + 1 \rightarrow n^p - n \geq 0$ $\left(\begin{array}{l} \text{für } n=1, \\ \text{für } n=0 \text{ X} \\ n \geq 2 \text{ ✓} \end{array} \right)$

$\frac{1}{n-1} \leq |n-1| \left\{ \begin{array}{l} n < 1 \rightarrow \frac{1}{n-1} \leq 1-n \rightarrow 1 \leq -n + n^p \rightarrow n^p - n + 1 \geq 0 \end{array} \right.$

$\Delta \leq b^p - a^p \rightarrow (b-a)^p = (1-0)^p = 1 - 0 = 1 \text{ X}$ ✓, b, a, p

$\omega_1) -p < \frac{p_m - 1}{m} < p \rightarrow -p < p - \frac{1}{m} < p \rightarrow -f < -\frac{1}{m} < 0 \rightarrow f > \frac{1}{m} > 0$
 $\frac{1}{f} < m < \infty \rightarrow \frac{1}{f} < m \checkmark \left[\frac{m-p}{p_{m+1}} < 1 \rightarrow \frac{1}{p} - \frac{p_0}{p_{m+1}} > 1 \rightarrow \frac{p_0}{p_{m+1}} > \frac{1}{p} \rightarrow p_{m+1} < \frac{1}{\frac{1}{f}} \rightarrow p_{m+1} < f \right]$
 $\omega_2) \frac{m-p}{p_{m+1}} > 1 \rightarrow \frac{m+1-p_0}{p_{m+1}} > 1 \rightarrow \frac{1}{p} - \frac{p_0}{p_{m+1}} > 1 \rightarrow \frac{p_0}{p_{m+1}} > \frac{1}{p} \rightarrow \frac{p_0}{p_{m+1}} < -\frac{1}{p}$
 $\rightarrow \frac{p_{m+1}}{p_0} > -p \rightarrow p_{m+1} > -p \rightarrow p_m > -p \rightarrow m > -p$

$$|x+1| - |rx| + |u-r| \begin{cases} x+1-rx+rx-r-1 = -1 & x \geq r \\ x+1-rx-x+r = -rx+r & r > x > 0 \rightarrow (-1, r] \\ x+1+rx-x+r = rx+r & 0 \geq x > -1 \rightarrow (1, r] \\ -x-1+rx-x+r = 1 & x \leq -1 \end{cases}$$

$$R_F = R_1 + R_r + R_{-r} + R_{-1} = \{-1\} \cup (-1, r) \cup (1, r] \cup \{1\} = [-1, r]$$

$$r+1 = \sqrt{r} \quad \checkmark$$

$$\begin{aligned} & \kappa^P < m + \delta \quad \kappa^P - m - \delta < 0 \quad \Delta = 1 - f(1)(\delta) = \nu\delta \\ & \frac{1 \pm \sqrt{10}}{\nu} \in \left(-\frac{\nu}{\nu} + \frac{-\nu}{1} - \frac{\nu}{1} + - \right) m \in (-\nu, \nu) \\ & \kappa^P > -m - \delta \rightarrow m^P + m + \delta > 0 \quad \Delta = 1 - f(1)(\delta) = \nu\delta \times \\ & \frac{\nu + -\nu}{\nu} > \frac{1}{\nu} \quad \frac{\nu - -\nu}{\nu} > \nu \frac{1}{\nu} \quad \left| m - \frac{1}{\nu} \right| < \nu \frac{1}{\nu} \rightarrow m > \frac{1}{\nu} \checkmark \end{aligned}$$

$$\rho_1, \rho_2 = \left| \frac{1}{p} x + r \right| - 1 \quad \left| \frac{1}{p} x + r \right| - 1 = \left| \frac{1}{p} x \right| - r, \left| \frac{1}{p} x + r \right| = \left| \frac{1}{p} x \right| - 1$$

[illegible]

$-1 > m > -1 \rightarrow -1 < m < -1$
 $-1 < m < -1 \rightarrow [-m] = -1 \rightarrow \delta = -1$
 $-1 \leq -m < 0 \rightarrow [-m] = -1 \rightarrow \delta = -1$
 $0 \leq -m < 1 \rightarrow [-m] = 0 \rightarrow \delta = -1$
 $1 \leq -m < 2 \rightarrow [-m] = 1 \rightarrow \delta = 0$

[illegible]

$[a] + x + [b] \leq r, v \rightarrow [a] + [b] \leq r$
 $[b] + z - [a] \leq r, v \rightarrow [b] - [a] \leq r \quad * \rightarrow r - [a] = r, \quad r - r \leq [a] \Rightarrow 0 \leq [a]$
 $r [b] \leq r \rightarrow [b] \leq r$
 $[a] + w + [b] + z \leq 1 + 0, v + w + 0, v \leq r, s$

$[(1+\sqrt{r})^2]_{+M} + [(1-\sqrt{r})^2]_{+Z} = 19V \rightarrow [(1+\sqrt{r})^2]_{+} + [(1-\sqrt{r})^2]_{-} = 19V$
 $1-\sqrt{r} \in [0, 1] \quad [0, 1]^2 \in [0, 1] \Rightarrow [(1+\sqrt{r})^2]_{+} + [0, 1] = 19V \leq [(1+\sqrt{r})^2]_{+0} = 19V$
 $[(1+\sqrt{r})^2]_{+} = 19V$

$$\left| \frac{n-r}{r_{n+1}} \right| > 1 \quad n \neq -\frac{1}{r}$$

(-r)

$$|n-r| > |r_{n+1}| \xrightarrow{\text{توان}} n^r - r_{n+1} > r_{n+1} + r_{n+1}$$

$$r_{n+1} + n - r < 0 \rightarrow \frac{-r \quad \frac{1}{r}}{+|-|+} \quad (-r, \frac{1}{r}) - \left\{ -\frac{1}{r} \right\}$$