

$x^2 - 1 \geq 0$ $x^2 \geq 1$ $(n \geq 1) \cup (n \leq -1)$
 $x - 2 \geq 0$ $n \geq 2$ $\cap$ $\rho_f: [2, +\infty)$

$4 - x^2 \geq 0$ $4 \geq x^2$ $2 \geq x$
 $4 - x^2 \geq 0$ $4 \geq x^2$ $n \geq \frac{1}{2}$ $\cap$ $\rho_f: (\frac{1}{2}, 2]$

$\rho_f: m, r \rightarrow 0$ $4x^2 - a = 0$ $a = 12$
 $b - 4 = 0$ $b = 4$

$\frac{b}{a} = \frac{4}{12} = \frac{1}{3}$

$y = \sqrt{\frac{(n-2)(n+2)}{x^2 - 12x^2 + 49}} \xrightarrow{x^2=t} t^2 - 12t + 49 \rightarrow (t-6)(t-8)$ $t=9 \rightarrow x = \pm 3$
 $\rho_f = (-\infty, -3) \cup (3, 2) \cup (2, +\infty)$ $t=8 \rightarrow x = \pm 2$

$x^2 - 2x^2 - 2x + 4 \mid \frac{n-1}{x^2 - x - 4}$ $x^2 + 2x^2 - 2x - 4 \mid \frac{n+1}{x^2 + x - 4}$
 $y = \sqrt{\frac{(n-1)(n-2)(n+2)}{(n+1)(n+2)(n-2)}} \geq 0$ $\rho_f = (-\infty, -2) \cup [-2, -1) \cup (1, 2) \cup (2, +\infty)$

$x \in [n] - \{r\}$ $x \in [n] \geq r$ $[n] \geq r$ $n \geq r$

$x \in [n] - \{a\}$ $[n] \geq r, \cup$ $n \geq r$

$y = \sqrt{\frac{n+1}{|n-2|}} + \sqrt{\frac{4-x}{(n+2)^2}}$ $[-1, +\infty) - \{2\} \cap (-\infty, 4] - \{-2\}$
 $\rho = [-1, 4] - \{+2\}$

$[n] - \{r\}$ $[n] \geq r$ $n \geq r$
 $x \in [n] \geq 0$ $[n] \leq r$ $n \leq r$ $\cap \rightarrow \emptyset$