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A مرسو: ع

$$y_n^m = a, y_{mn}^{mr} = b, a > 0$$

$$0 < \frac{a}{a+1} < 1 \rightarrow 1 < b < \boxed{[b] = 1}$$

$$\frac{y_n^m}{y_n} = a \rightarrow y^m = a \cdot y^n \quad \frac{y_{mn}^{mr}}{y_{mn}} = \frac{r y^m + y^n}{y^m + y^n} = \frac{r a y^n + y^n}{a y^n + y^n} \rightarrow b = \frac{r a + 1}{a + 1}$$

$$I) y = \sqrt{\frac{u}{y^n + 1}} \quad II) y_{\frac{u}{r}} \rightarrow u \neq$$

$$III = \frac{u}{y_{\frac{u}{r}}} > 0$$

$$\frac{1}{1+1}$$

$$I \cap II \cap III = \boxed{[b, 1]}$$

$$\rightarrow y = \frac{y^r}{\sqrt{u^r - 1} + 1} = I \cap II : (-\infty, -1) \cup (1, +\infty)$$

$$I : u^r - 1 > 0 \rightarrow |u| > 1 \rightarrow u \in (-\infty, -1] \cup [1, +\infty)$$

$$II : u^r - u - 1 > 0 \rightarrow u = -1/r \quad \frac{-1/r}{1+1/r} \quad u \in (-\infty, -1) \cup (1, +\infty)$$

$$r y_u^a + y_a^r = r \xrightarrow{u=a} r y_{\frac{a}{r}}^a + y_a^r = r \rightarrow \frac{r}{\frac{a}{r}} + \frac{r}{a} = r \rightarrow \frac{r^2}{a} + \frac{r}{a} = r \rightarrow \frac{r^2 + r}{a} = r \rightarrow a = r$$

$$y^r = -1/r \quad y^r = 1/\varepsilon \quad (y^{\frac{\omega}{r}}) u^r + y^a u - y^{1a} = 0 \quad \frac{u^r}{u} = \frac{-1/r}{1/\varepsilon} \rightarrow u = \frac{1/\varepsilon}{r}$$

$$y^r = 1/r, y^r = 1/\omega \quad y_{1/\varepsilon}^{1a} = ?$$

$$\frac{y_{1/\varepsilon}^{1a}}{y_{1/\varepsilon}^{1a}} \Rightarrow \frac{y_{1/\varepsilon}^r + y_{1/\varepsilon}^r}{y_{1/\varepsilon}^{\omega} + y_{1/\varepsilon}^r} \Rightarrow \frac{r+1}{r\omega} \rightarrow \frac{r+1}{r\omega} \quad y_{1/\varepsilon}^{1a} = \frac{r}{r+1}$$

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$$\begin{array}{r} 44 \\ 44 \\ \hline 88 \end{array}$$

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$$\frac{\mu}{\varepsilon}(m+1)$$

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