

$$\frac{1}{x+y} \cdot \frac{1}{x+y+1} = 1$$

محل حل

$x+y=0$

$a > 1 \quad m > n \quad a^m > a^n \quad \gamma^m > \gamma^n$
 $m, n \in \mathbb{Z}$

$\circ < a < 1 \quad m > n \quad a^m < a^n \quad \gamma^m < \gamma^n$
 $m, n \in \mathbb{Z}$

$\circ < a < b \Rightarrow a^m < b^m \quad \gamma^m < \gamma^b$
 $m \in \mathbb{N}$

$$\begin{array}{l} (-1)^{\frac{1}{2}} = -1^{\frac{1}{2}} \quad (-) \\ \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \\ -\sqrt{-8} < -\sqrt{-19} \quad (\text{✓}) \\ -\sqrt{-1} > \sqrt{-10} \quad (\text{✗}) \\ \left(\frac{1}{2}\right)^6 < \left(\frac{1}{2}\right)^5 \quad (\text{✓}) \end{array}$$

$$\text{لكل } n \in \mathbb{N}, \quad (-1)^n < (-1)^{n+1} < (-1)^{n+2} < \dots$$

لكل $n \in \mathbb{N}$

$$\frac{\frac{100}{2}}{1+\frac{100}{2}} > \frac{\frac{99}{2}}{1+\frac{99}{2}}$$

وَلِمَنْدَلْهُ لِكَلْمَنْدَلْهُ لِكَلْمَنْدَلْهُ