

$$y = \frac{w x^y - y x}{x^y + k} < y \quad (a, b) \text{ سبب } \textcircled{1}$$

$$\frac{w x^y - y x}{x^y + k} - y = \frac{w x^y - y x - y x^y - \Lambda}{x^y + k} = \frac{x^y - y x - \Lambda}{x^y + k} < 0$$

$$\frac{(x - k)(x + y)}{x^y + k} < 0 \quad \begin{matrix} -y & k \\ +\phi & -\phi+ \end{matrix}$$

$$x \in (-y, k) = \underset{-y}{(a)} \underset{k}{(b)} \quad b - a = k - (-y) = y$$

$$-1 < \frac{w x^y - k x}{x + 1} < 0 \quad \textcircled{9}$$

$$0 < \frac{w x^y - k x}{x + 1} + 1 = \frac{w x^y - k x + x + 1}{x + 1} = \frac{w x^y - w x + 1}{x + 1}$$

$$\Rightarrow x + 1 < 0 \Rightarrow x < -1$$

$$\frac{w x^y - k x}{x + 1} < 0 \Rightarrow \frac{x(w x - k)}{x + 1} < 0 \quad \begin{matrix} -1 & 0 & k \\ -\phi+ & \phi & -\phi+ \end{matrix}$$

$$\Rightarrow x \in (-\infty, -1) \cup (0, \frac{k}{w}) \quad \} \cap x \in (-\infty, -1)$$

$$\frac{x^y - 10}{x} \leq w \Rightarrow \frac{x^y - 10}{x} - w \leq 0 \quad \textcircled{10}$$

$$\frac{x^y - w x - 10}{x} = \frac{(x - a)(x + y)}{x} \leq 0$$

$$\begin{matrix} -y & 0 & 0 \\ -\phi+ & \phi & -\phi+ \end{matrix}$$

$$x \in (-\infty, -y] \cup (0, \frac{10}{w}]$$

آیدین اشرفی

گروه A