

$$n \geq 0 \rightarrow y \in \mathbb{R} \xrightarrow{nsy} y = \frac{n}{\varepsilon}$$

$$n \leq 0 \rightarrow y \in \mathbb{R} \xrightarrow{nsy} y = \frac{n}{\varepsilon}$$

$$ab = \frac{\mu}{\lambda} \cdot \left(-\frac{1}{\lambda}\right) \uparrow \frac{-\mu}{4\varepsilon}$$

$$\frac{\frac{n}{\varepsilon} + \frac{n}{\varepsilon}}{\varepsilon} = \frac{\mu}{\lambda} \rightarrow a \leq \frac{\mu}{\lambda} \quad n \leq 0 \rightarrow \frac{\mu}{\lambda} n - b n \leq \frac{n}{\varepsilon} \rightarrow b \leq -\frac{1}{\lambda} \Rightarrow$$

$$\frac{y+\varepsilon}{r+m} \leq b \rightarrow r+m \leq \frac{1}{b} \rightarrow n \leq \frac{1}{b} \rightarrow f(n) \leq \frac{\mu+\varepsilon}{n-\mu} \rightarrow f(n) \leq f'(y)$$

$$y \leq f(f'(n) + f'(n)) \rightarrow n + \frac{\mu+\varepsilon}{n-\mu} \leq y \rightarrow n + \frac{\mu+\varepsilon}{n-\mu} \leq \frac{\mu}{\varepsilon} n \rightarrow \mu n + \varepsilon \leq \mu n - \mu \varepsilon \rightarrow \mu \varepsilon \leq -\mu \varepsilon$$

$$f'(t) \leq \mu \leftarrow f(\mu - \mu) = t$$

$$r \cdot g(\mu) \leq t \rightarrow g(\frac{\mu}{r}) \leq r t \rightarrow g'(\frac{\mu}{r}) \leq \frac{\mu}{r} \rightarrow \mu \leq \varepsilon g'(\frac{\mu}{r})$$

$$f'(t) \leq \mu - \varepsilon g'(\frac{\mu}{r}) \xrightarrow{t \leq r} f'(-r) \leq \mu - \varepsilon g'(\varepsilon)$$

$$\varepsilon g'(\varepsilon) + f'(-r) \leq \varepsilon g'(\varepsilon) + \mu - \varepsilon g'(\varepsilon) = \mu$$

$$-y \leq \frac{-\mu + (-1)^r}{1+m} \rightarrow y \leq \frac{\mu + 1^r (-1)^r}{1+m} \rightarrow y \leq \frac{\omega(u-r) + 1^r}{1+(u-r)}$$

$$y \leq \frac{\omega(u-r) + 1^r}{(u-r) + 1} - \mu \rightarrow f(n) \leq \frac{\mu + \gamma}{n-1}$$

$$f(n) \leq \frac{\mu + \gamma}{n-1} \rightarrow \frac{r(n+\mu)}{n-1} \leq \frac{n+\gamma}{n-r} \rightarrow \mu r + \mu - 1 \leq \omega n + \mu r - \gamma \rightarrow \mu r - \mu - \gamma \leq \omega n$$

$$n + f(n) \leq y \xrightarrow{nsy} n \leq \varepsilon [y] + n$$

$$[n] \leq [y, \varepsilon[y]] \rightarrow [n] \leq [y] + \varepsilon[y] \rightarrow [n] \leq \omega[y] \rightarrow [y] \leq \frac{[n]}{\omega} \rightarrow \varepsilon[y] \leq \frac{\varepsilon}{\omega} [n]$$

$$n \leq y + \frac{\varepsilon}{\omega} [n] \rightarrow y \leq n - \frac{\varepsilon}{\omega} [n]$$

$$f(n) \leq n - \frac{\varepsilon}{\omega} [n], \quad g(n) \leq n - \frac{\varepsilon}{\omega} [n] \Rightarrow f(n) - g(n) \leq \left(\frac{\varepsilon}{\omega} [n]\right)$$