

ملاحظات

$$\left. \begin{aligned} &S_n^m = a \Rightarrow m = n^a \\ &S_{mn}^{m^r} = b \end{aligned} \right\} \Rightarrow S_{n^{a+1}}^{n^{ra+1}} = b \Rightarrow \frac{(a+1) \frac{r}{n}}{(a+1)} = b$$

$\Rightarrow [b] = 1$

الف) $P_f = (001)$ $\Rightarrow \left. \begin{aligned} n > r &\leq n < -1 \\ n > 1 &\leq n, r - 1 \end{aligned} \right\} \Rightarrow (-\infty, -1) \cup (r, +\infty)$

$$S_n^{\frac{r}{n}} + S_n^r - S_n^{10} = S_n^{\frac{r}{n} \times \frac{r}{n}} = S_n^r = 0 \Rightarrow n_1 = 1$$

$$n_1 = \frac{r}{a} = \frac{-S_n^r + S_n^r}{S_n^r - S_n^r}$$

$$n_1 - n_r = \frac{1}{r}$$

$$n + \frac{1}{n} = r \Rightarrow n = 1 \Rightarrow S_n^a = 1 \Rightarrow a = r$$

$$S_r^a = r \quad S_{12}^{10} = \frac{S_r^{10}}{S_r^{10}} = \frac{1+r}{1+S_r^r} = \frac{r}{r+1} = \frac{10}{19}$$

$$S_r^r = \frac{r}{n} \quad S_{12}^r = \frac{S_r^r}{S_r^r} = \frac{1+S_r^r}{1+S_r^r} = \frac{1+\frac{1}{n}}{1+\frac{1}{n}} = \frac{r}{r}$$

$$\frac{r S_r^r + 1}{r} = m \Rightarrow S_r^{15} = \frac{r S_r^r}{r} \Rightarrow \frac{r + r m - 1}{r} = \frac{r m + r}{r}$$

$$r m^r + r m - 1 = 0 \rightarrow \begin{aligned} & a = -1 \quad \chi \\ & b = \frac{1}{r} \end{aligned} \Rightarrow S_r^r = \frac{r}{r} S_r^r = \frac{r}{r}$$

$$L^b_n = \frac{r}{c} (1 + L^c_c) = \frac{r}{c} L^c_r = L^c_r \Rightarrow b=r$$

$$L^{rb-n} = L^{1.1-1} = L^1 = r$$

$$\frac{b}{ra} = L^1_r \Rightarrow \frac{a}{b} = \frac{1}{r} \Rightarrow c = -L^b$$

$$\Rightarrow \frac{c}{a} = -r L^w_r \Rightarrow (r \frac{1}{r}) L^w_r = \omega \frac{1}{r} = \int \omega$$