

$$\left. \begin{aligned} n^r - (a+1)n + a &= 0 \Rightarrow \\ n^r + (-a-1)n + a &= 0 \Rightarrow \end{aligned} \right\} (n-a)(a-1) \Rightarrow a+r \Rightarrow a=r \quad (1)$$

$$n^r - (ra+1)n + b = 0 \Rightarrow n^r - (r+1)n + b = 0 \Rightarrow n^r - 1 \cdot n + b = 0$$

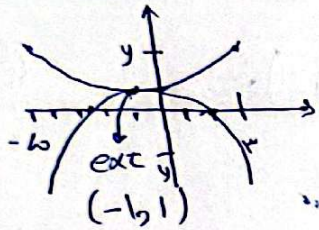
$$S = \alpha + \alpha + r \quad r\alpha + r = 1 \Rightarrow \alpha = \frac{1}{r} \Rightarrow B = \frac{1}{r}$$

$$|P - P'| = |(r\alpha) - (1\alpha)| = r$$

$$n^r + n + (-1 - m^r) = 0 \quad (2)$$

$$\alpha^r + \beta^r = S^r - r p = 1 - r(-1 - m^r) \Rightarrow 1 + r + r m^r \Rightarrow r + r m^r$$

$$r + r m^r \in [r, +\infty) \Rightarrow r + r m^r = r \Rightarrow m = 0$$



$$\lim_{ext} \frac{r + r m^r}{r} = -1 \Rightarrow y = a(n+1)^r + 1 \Rightarrow 0$$

$$0 = a(n^r + 1 + r n) + 1 \Rightarrow a n^r + a + r a n + 1$$

$$0 = a n^r + r a n + 1 + a \Rightarrow \alpha + \beta = \frac{-ra}{a} = -r$$

$$\alpha^r + \beta^r = S^r - r p$$

$$\alpha + \beta = \frac{1+a}{a} \Rightarrow \frac{1}{r} \Rightarrow a = -\frac{r}{r}$$

$$\omega = r - r p \Rightarrow p = \frac{1}{r} \Rightarrow y = -\frac{r}{r} (n+1)^r + 1 \xrightarrow{n \geq 0} \frac{r}{r} + 1 = \frac{1}{r}$$