sabato 4 luglio 2020 18:11

10. Relative degree
$$(\rho = q = 1)$$

let v be the relative degree of S: v is the first printager such that:

$$\begin{cases} CA^{r-1}B \neq 0 \\ CA^{k}B = 0 \quad k=0,..., r-2 \end{cases}$$

$$P(s) = \frac{N(s)}{S(s)} \sim m = \frac{b_0 + ... + b_m s^m}{a_0 + ... + s^n} \qquad \boxed{v = n - m}$$

$$= \frac{b_0 + \cdots + b_m s^m}{\sqrt{s}}$$