Chap 4 生成函权.

与44 花和算子

Note

$$A(x) = \sum_{n=0}^{\infty} a_n X^n = a_0 + a_1 X + a_2 X^2 + \cdots$$

$$\frac{A(x)}{1-x} = (1+x+x^2+\cdots)(a_0+a_1x+a_2x^2+\cdots)$$

Ex.

Sol.

$$A(x) = \sum_{n=0}^{\infty} a_n x^n = \sum_{n=0}^{\infty} (n+1) n (n-1) x^n$$

$$\frac{6}{1-\chi^{1/4}} = \sum_{n=2}^{\infty} (n+1) n(n-1) \chi^{n-2}$$

:
$$Sn \ge GF S(x) = \frac{1}{1-x} A(x) = \frac{6x^2}{(1-x)^5}$$

