

$$6.7 \quad a_{n+1} = -a_n + \frac{n}{e^n}, \quad a_0 = a_1 = 0$$

$$a_{n+1} + a_n - \frac{n}{e^n} = 0$$

$$a_{n+1} + a_n - n\left(\frac{1}{e}\right)^n = 0$$

$$\cancel{ZOP} \langle a_n \rangle (E-1) \left(E - \frac{1}{e}\right)^2 \quad \text{- annihilator}$$

$$\alpha n + \beta + (\gamma n + \delta) \left(\frac{1}{e}\right)^n$$