Homework 07 存納 Section 8.3 Ex.36: Using the conclusion from Ex.31: We get:  $f(n) = \frac{2 \times 1}{2^2 - 8} \cdot n + (1 + \frac{2 \times 1}{9 \cdot 2^2}) \cdot n^{\log_2 8}$  $=-\eta^{2}+2n^{3}$ Ex-37: Oun Oun3) Section. 8.4 Ex.12: (a) 1/(1+3x): coefficient of x'2 is: 3 = 531441 (b) 1/(1-2x)2: coefficient of x12 is: 212. C(2+12-1, 2-1) = 212. C (13,1) (c) 1/11+x)8: coefficient of x"is: 79 (157) (-1)12 ( (8+12-1,8-1) Ex-24. = C(19,7) (a) (x1+x+x+...) (x+x+x+x+x5)(1+x+x+x5) = 50388 (X+X+X+...) (b) Ex.34.