Math 146
Homework 3

- Solve problems from Wilf's book Section 1.7:

  1. 1.abcdf,
  2. 2. abcfg
  3. 3.abceg
  4. 4.abceg,
  5. 5
  6. 6
  7. 11
  8. 12
  9. 14
  10. 16

- What is the coefficient of x^n in the power series of $\frac{1+2x+2x^2}{1-3x+3x^2-x^3}$.

- Find a formula for a_n when the sequence is defined by the following linear homogeneous recurrence: $a_0 = 2$, $a_1 = 0$, $a_2 = -2$ and $a_{n+3} - 6a_{n+2} + 11a_{n+1} - 6a_n = 0$