

## **1 1**

### **1.1 1-1**

$$\begin{aligned}(a_n) &= (1, -1, 2, -1, 3, -3, \dots) \\ (b_n) &= (1, -3, 5, -7, 9, -11, \dots) \\ (c_n) &= (1, 4, 9, 16, 25, 36, \dots)\end{aligned}$$

### **1.2 1-2**

$$\begin{aligned}[x^5] : (2x - 1)^{-2} \\ [x^5] : (1 + x)^{-1/3}\end{aligned}$$

### **1.3 1-3**