Homework assignments for chapter 10:

10.2, 10.3, 10.5, 10.6, 10.11, 10.15, 10.16, 10.17, 10.18, 10.20, 10.22(b,d), 10.24(b,c), 10.31, 10.34

Discussion problem assignment:

第一题：

2. Find the z-transform of the following signal and the corresponding poles and zeros

$$x[n] = \left(\frac{1}{3}\right)^n u[n] + \left(\frac{1}{2}\right)^n u[-n-1]$$

第二题：

1. Find the z-transform and ROC for the following signals:

$$x_1[n] = \left(\frac{1}{2}\right)^{n+1} u[n+1] \qquad\qquad x_2[n] = \left(\frac{1}{2}\right)^{-n+1} u[-n+1]$$

$$x_3[n] = u[n+2] - u[n-3]$$