Homework Problems:

1. 2.47 (from textbook)

2. 2.57 (from textbook)

3. 2.61 (from textbook)

4. (a) Determine the Z-Transform of the sequence $x(n)$, given by

$$x(n) = -\alpha^n u(-n-1)$$

   (b) Compare it with the Z-Transform of the sequence $x_2(n)$, given by

$$x_2(n) = \alpha^n u(n)$$

   and comment on similarities and differences (both in the time-domain and the Z-domain).