#1 - #9: Do the following exercises from the textbook. You may use any results proven in the text or in class:

Section 3.1, #2 and #7;
Section 3.2, #7, #8 and #19;
Section 3.3, #2a, b and g and #10;
Section 3.4, #8 and #10.

#10: Repeat exercise #2a, b and g from section 3.3, except treat the coefficients as elements in the finite field $\mathbb{Z}/11\mathbb{Z}$ of 11 elements.