1. Problem #25 of §6.5 (initial value problem with delta function)

2. Problems #1 and #12 in §6.6 (properties of convolution product)

3. Problems #19 and #20 of §7.5 (vector valued Euler equation)

4. Problem #31 of §7.5 (equilibrium points of vector system)

5. Optional extra credit problem: Problems #29 of §7.5 (second order scalar equation and first order system)

*Numbering of problems according to the 9th edition of the textbook