Use MATLAB to compute approximate solutions to the boundary value problems below. For each problem, plot the approximate and the exact solutions. Submit these plots along with your MATLAB codes and concise explanations. In each problem, you will need to solve auxiliary initial value problems. For this, use function `ode23` available in MATLAB.

1. Section 11.1: Problem 2 (p. 649)
2. Section 11.2: Problem 3c (p. 655)
3. Section 11.3: Problem 3c (p. 661)