Dartmouth College

Mathematics 23 - Assignment 7

- 1. Find the general solution to each of the following:
 - (a) y'' + 6y' + 9y = 0
 - (b) y'' + 7y' = 0
 - (c) y'' + y' + 4y = 0
- 2. Boyce and DiPrima, Section 3.4: 15
- 3. Boyce and DiPrima, Section 3.4: 18
- 4. Boyce and DiPrima, Section 3.4: 24
- 5. Boyce and DiPrima, Section 3.4: 31 (In the second half of part (b), after deriving the general integral formula, just compute the integral in case N=1; you don't have to do the case N=2, which involves integration by parts twice. Read the rest of the problem though; it's quite interesting.)