

Dartmouth College
Mathematics 23 - Assignment 12

1. Boyce and DiPrima, Sec. 4.1: 7
2. Boyce and DiPrima, Sec. 4.1: 8
3. (Lebl 2.3.2) Solve $y^{(4)} - 5y''' + 6y'' = 0$
4. (Lebl: 2.3.4) Suppose that the characteristic equation for a differential equation is $(r - 1)^2(r - 2)^2 = 0$.
 - (a) Find such a differential equation.
 - (b) Find its general solution.
5. Boyce and DiPrima, Sec.3.7: 20