Dartmouth College
Mathematics 23 - Assignment 5

1. For each of the following, indicate whether the equation is separable, whether it is linear, and whether it is exact. You do *not* have to solve the equation.

   (a) $(y + 1) + xy' = 0$

   (b) $y \sin(x) - \cos(x)y' = 5.$

2. Boyce and DiPrima, Section 2.6: 10

3. Boyce and DiPrima, Section 2.6: 14

4. Boyce and DiPrima, Section 2.6: 20

5. Boyce and DiPrima, Section 2.6: 23

6. Boyce and DiPrima, Section 2.6: 27 (You may want to use problem 23.)