

Math 320 (Smith): Problem Set 10

DUE Friday Nov 20, 2009

1. Find the general solution to the following ODEs:

$$2x^2y'' + 6xy' + 2y = 0, \quad x > 0$$

$$2x^2y'' + 2xy' + 2y = 0, \quad x > 0$$

$$2x^2y'' + 7xy' + 2y = 0, \quad x > 0$$

2. EP Section 5.4: 3, 17, 21, 22

3. EP Section 5.5: 3, 9, 10, 16, 25, 26, 32, 33