

McGill University
Math 325A: Differential Equations
Assignment 8: due Thursday, November 30, 2000

For each of the following differential equations show that $x = 0$ is a regular singular point. Also, find the indicial equation and the general solution using the Frobenius method.

1. $9x^2y'' + 9xy' + (9x - 1)y = 0.$

2. $xy'' + (1 - x)y' + y = 0.$