

**Math 365: Honors Analysis I**

Name: \_\_\_\_\_

**Quiz 2** *September 29, 2000*

1. Find two independent power series solutions and their radii of convergence for the equation

$$y'' + xy' + y = 0$$

2. Find two independent Frobenius series solutions for the equation

$$2x^2y'' - 3xy' + 3(x+1)y = 0$$