

Math 226.01: Differential Equations and Linear Algebra
Quiz 7
October 29, 1998

Name: _____

Assume $y = \sum_{n=0}^{\infty} a_n x^n$ is a solution of the differential equation

$$y'' - xy' - 2y = 0.$$

Find the recurrence relation for the coefficients. Find also the first six terms (that is, up to the power x^5) in each of two linearly independent solutions.

Answer: _____

Sign the pledge: "On my honor, I have neither given nor received unauthorized aid on this Exam."

Signature: _____