

Math 240 - Quiz 8

March 31, 2022

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary. This quiz is due April 5.

1. (5 points) State the recurrence relation that describes the coefficients of the power series solution (centered at $x = 0$), and write the first eight terms of the power series solution.

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

Turn over.

2. (5 points) State the recurrence relation that describes the coefficients of the power series solution (centered at $x = 0$), and write the first eight terms of the power series solution.

$$y' + x^3y = 0$$