Math 54 Fall 2017   Sample Quiz 13

You have 20 minutes to complete this quiz. To receive full credit, you must justify your answers.

Name : _____

1. (5 points) Find the general solution to the following system.

$$y_1' = y_1 - 3y_2$$
$$y_2' = 2y_1 - 4y_2$$

2. (5 points) Write down the sine series of the function $f : [-\pi, \pi] \to \mathbb{R}$ given by $f(x) = x$.