

Math 307 Quiz 4

February 18, 2016

Problem 1. Find the general solution of each of the following differential equations

(a) $y'' + 6y' + 9y = 0.$

(b) $y'' + 2y' - 3y = 0.$

(c) $y'' + y' + 2y = 0.$

Problem 2. Find the general solution of the differential equation

$$y'' + xy' - y = 0,$$

[Hint: $y_1 = x$ is a solution.]