Quiz No. 3, Math 202

Name_____ID_____Section_____

Q1. Verify that $x,\ x^{-2},\ x^{-2}\ln x$ form a fundamental set of solutions of $x^3y''' + 6x^2y'' + 4xy' - 4y = 0$ on $(0, \infty)$.

Q2. Verify that $y_p = x^2 + 3x$ is a particular solution of $y'' - 6y' + 5y = 5x^2 + 3x - 16$