KFUPM/ Dept. of Mathematics & Statistics ID #: Serial #:
MATH 202-11/ Quiz 2 Name:

1. Use reduction of order to find a 2^{nd} solution y_2 of the DE $x^2y'' - 3xy' + 4y = 0$ given that $y_1 = x^2$ is a solution.

2. Use the annihilator approach to find the form of a particular solution of $y'' + 4y = \sin 2x + xe^x$