KFUPM/ Dept. of Mathematics & Statistics ID #: Serial #:
MATH 202-15/ Quiz 2 Name:

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

2. Use the annihilator approach to find the form of a particular solution of $y'' + y = \cos x + 7\sin x + x$