MATH 333 030 – Quiz – 6/24/04 – Name: ____________________________

Pencils and Erasers Only – No Calculators Allowed.

1. For each of the following differential equations, write down a fundamental set of solutions. Make sure the functions in your answers are all real-valued functions.

(a) $y'' + 16y = 0$

(b) $y'' - 16y = 0$

(c) $y'' - 16y' = 0$
2 For each of the following differential equations, write down a fundamental set of solutions. Make sure the functions in your answers are all real-valued functions.

(a) \( y'' - 16y' + 64y = 0 \)

(b) \( y'' + 6y' + 34y = 0 \)

(c) \( y'' + 6y' - 16y = 0 \)