

KFUPM – Math 202– Quiz 5

Name : ..... ID #.....Sec# ..... Serial #: .....

**Question:** Consider the differential equation:

$$D^2(D + 1)^3(D^2 + 4) [(D - 3)^2 + 16]^2 y = 0.$$

a) Write the auxiliary equation and find its roots.

b) Write the general solution of the differential equation.