

Department of Mathematical Sciences  
KFUPM  
Term 061

**MATH 202-08/ Quiz#1/ Time allowed=25 minutes**

Name:

ID#:

**Q 1.** [4 points] Find all values of  $m$  so that  $y = x^m$  is a solution of the differential equation  $x^2y'' + 6xy' + 4y = 0$ .

**Q 2.** [6 points] Find two constants solutions of the differential equation  $y' = y^2 - 9$ . Then find the general solution.