

Department of Mathematical Sciences
KFUPM
Term 042

MATH 202/ Quiz#4/ Time allowed=50 minutes

Name:

ID#:

1. Find two power series solutions about the point $x = 0$ of the differential equation $(x^2 + \frac{1}{4})y'' + xy' - y = 0$.
2. Find two series solutions of the differential equation $2xy'' + (1+x)y' + y = 0$ defined near the point $x = 0$.