MATH 202.7 (Term 141)
Quiz 3 (Sects. 4.2 & 4.3) **Duration: 20min**

Name: **ID number:**

1.)(5pts)Use reduction of order to find a second solution y_2 of the DE $(1-x^2)y''-2xy'+2y=0$, $x>1$, given that $y_1=x$ is a solution of the DE.

2.)(5pts)Solve the IVP $\begin{cases} y^{(4)}+y''-2y=0 \\ y(0)=y'(0)=0,\ y''(0)=y^{(3)}=1. \end{cases}$
