

MATH 202.11 (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 $xy'' - y' + 4x^3y = 0$, given that $y_1 = \sin(x^2)$ is a solution of the DE.

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