3.2 Solutions of Linear Homogeneous ODEs and the Wronskian

Example: Find the longest interval in which the unique solution to $(t-2)y'' + y' + (t-2)\tan(t)y = 0$, y(3) = 1, y'(3) = 2 is certain to exist.

Show that the general solutions found for the ODE y'' + y' - 6y = 0 form a fundamental set of solutions.

Show that the general solutions found for the ODE 2y'' + 7y' + 6y = 0 form a fundamental set of solutions.