

3.1: Homogeneous ODEs with Constant Coefficients

Examples:

Solve the ODE $y'' + 3y' + 2y = 0$.

Solve the IVP $y'' + y' - 6y = 0$, $y(0) = 1$, $y'(0) = 2$.

Find and plot the solution of the IVP $2y'' + 7y' + 6y = 0$, $y(0) = 0$, $y'(0) = -1$.