Section 5.3

Homogenous Equations with Constant Coefficients

Repeated roots-

Complex Roots

Repeated Complex Roots

$$2y''-7y'+3y=0$$

$$y''-6y'+13y=0$$

$$y^{(3)}+10y''+25y'=0, \; y(0)=3, \; y'(0)=4, \; y''(0)=5$$

$$y^{(4)}-y^{(3)}+y''-3y'-6y=0$$