1) Method of undetermined coefficients 2) Variation of parameters

$$\frac{\lambda', \lambda'_{1} - \lambda^{2} \lambda'_{1}}{\Lambda'_{1}(t)} = \frac{\begin{vmatrix} \lambda'_{1}(t) & \lambda'_{1}(t) \\ \lambda'_{1}(t) & \lambda^{2}(t) \end{vmatrix}}{\begin{vmatrix} \lambda'_{1}(t) & \lambda'_{1}(t) \\ 0 & \lambda^{2}(t) \end{vmatrix}} = \frac{M(t)}{M(t)}$$

Consider the non-order ODF

Thre II denotes the Wronkian converponding the firs. 41, 42, ..., 40, & Wi is obtained from It by replacing the it column by (0,0,...,0,×4).

Method of undetermined coefficients

1)
$$y'' - 3y' + 2y = e^{3k}$$

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

$$y_h(t) = c_1 e^t + c_2 e^{2t}$$

c9e -c9e +2ce ze =) 9c -9c+2c =1



