MÉTODO DE PARÁMETROS VARIABLES

$$y_{g.n.} = y_{g/h} + y_{p/q}.$$

$$y_g = C_1 e^{-\int p\,dx} + e^{-\int p\,dx} \int e^{\int p\,dx} q\,dx$$

$$y_{g/h} = C e^{-\int p\,dx}$$

$$y_{g/nh} = \left(C + \int e^{\int p\,dx} q\,dx \right) e^{-\int p\,dx}$$

$$y_{g/nh} = A(x)\, e^{-\int p\,dx}$$

$$y'' - 5y' + 6y = 4e^{x}$$

$$y_{c/f} = c_1 e^{2x} + c_2 e^{3x}$$

$$y_{g/u} = A(x)e^{2x} + B(x)e^{3x}$$

$$y' = 2A(x)e^{2x} + 3B(x)e^{3x} + \underline{A'(x)e^{2x} + B'(x)e^{3x}}$$

$$\underline{A'(x)e^{2x} + B'(x)e^{3x} = 0}$$

$$y' = 2A(x)e^{2x} + 3B(x)e^{3x} + 0$$

$$y'' = 4A(x)e^{2x} + 9B(x)e^{3x} + \underline{2A'(x)e^{2x} + 3B'(x)e^{3x}}$$

$$\underline{= Q(x)}$$

$$y'' = 4A(x)e^{2x} + 9B(x)e^{3x} + Q(x)$$

$$\begin{bmatrix} A'(x) \\ B'(x) \end{bmatrix} \cdot \begin{bmatrix} e^{2x} & e^{3x} \\ 2e^{2x} & 3e^{3x} \end{bmatrix} = \begin{bmatrix} 0 \\ Q(x) \end{bmatrix}$$