$$y = \sum_{k=2}^{\infty} c_{k} \left[\kappa(\kappa-1) + 9c_{k-2} \right] \times^{\kappa-2} = 0$$

Fecursian relation:
$$c_{K} = \frac{-9}{K(K-1)}$$

$$c_{K} = f_{N} c_{K-2}$$

Solutions:
$$\begin{cases} y_1 = c_0 + c_2 x^2 + c_4 x^4 + c_1 x^4 \\ y_2 = c_1 + c_5 x^3 + c_5 x^5 + c_{M1} x^{M+1} \end{cases}$$

Respect series: $E = y_1 = C_0 \left(1 + \frac{c_2}{c_0} x^2 \left(1 + \frac{c_4}{c_1} x^2 \left(1 + \frac{c_4}{c_1} x^2 \right) + \frac{c_4}{c_1} x^2 \right) \right)$

Nested series: $C_1 = y_1 = C_0 \left(1 + \frac{c_2}{c_0} x^2 \left(1 + \frac{c_4}{c_1} x^2 \left(1 + \frac{c_4}{c_1} x^2 \right) + \frac{c_4}{c_1} x^2 \right) \right)$

Nested series: $C_1 = C_1 \left(1 + \frac{c_2}{c_1} x^2 \left(1 + \frac{c_4}{c_2} x^2 \right) + \frac{c_4}{c_1} x^2 \right) \right)$

Alested series: $C_1 = C_1 \left(1 + \frac{c_2}{c_1} x^2 \left(1 + \frac{c_4}{c_2} x^2 \right) + \frac{c_4}{c_1} x^2 \right)$

Alested series: $C_1 = c_1 + c_2 x^2 + c_4 x^2 +$