2d)

$$s^4 + 3s^3 + 4s^2 + 12s + 12$$

4	1	4	12
3	3	12	0
2	b_{n-1}	b_{n-3}	0
1	c_{n-1}	c_{n-3}	
0	12		

b_{n-1} = 0, b_{n-3} = 12, $c_{n-1} = \frac{-36}{\varepsilon} + 12$, c_{n-3} = 12

instead ten muda sinal

$$b_{n-1} = -\frac{1}{3}\begin{vmatrix} 12 & -12 \\ 1 & 4 \\ 3 & 12 \end{vmatrix}$$

$$b_{n-3} = -\frac{1}{3}\begin{vmatrix} 0 & -36 \\ 1 & 12 \\ 3 & 0 \end{vmatrix}$$

$$= \frac{36}{3} = 12$$

$$c_{n-1} = -\frac{1}{\varepsilon}\begin{vmatrix} 36 & -12\varepsilon \\ 3 & 12 \\ \varepsilon & 12 \end{vmatrix}$$

$$= -\frac{1}{\varepsilon}(36 - 12\varepsilon)$$

$$= -\frac{36}{\varepsilon} + \frac{12\varepsilon}{\varepsilon}$$

$$= -\frac{36}{\varepsilon} + 12$$

$$c_{n-3} = -\frac{1}{\varepsilon}\begin{vmatrix} 0 & -12\varepsilon \\ 3 & 12 \\ \varepsilon & 0 \end{vmatrix}$$

$$= 12$$