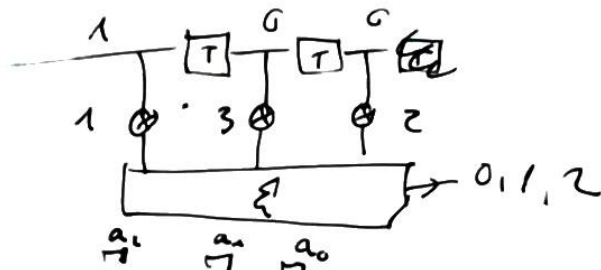


INFOCODE GYAK

$$GF(5) \quad (x^2 + 3x + 2)(x + 4) = x^3 + 3x^2 + 2x + 4x^2 + 4x + 8 = x^3 + 7x^2 + 6x + 8 = x^3 + 2x^2 + x + 3 = (1 \ 3 \ 2) + (0 \ 1 \ 4) = x^3 + 2x^2 + 4x + 3$$

tableket $\rightarrow 0 \ 1 \ 2 \ 3$



$$x^3 + 4x + 4 \div x^2 + 2x + 3 = 0$$

$$x^3 + 0x^2 + 4x + 4 \div 0x^3 + x^2 + 2x + 3 = x + 3$$

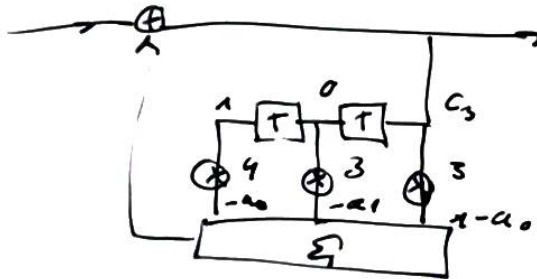
$$- x^3 + 3x^2 + 3x + 0$$

$$0 - 2x^2 + x + 4$$

$$3x^2$$

$$- 3x^2 + 1x + 4$$

$$0$$



① Szorzatok

$$c_1 = 4 + c_1 \cdot 3 + 3 \cdot 3 \quad | - c_1$$

$$0 = 3 + 2c_1 \quad | + (3)_r^{-1} = 2$$

$$2 = 2c_1 \quad | (2)_r^{-1} = 3$$

$$1 = c_1$$

$$c_3 = c_3 \cdot 3 + 1 \cdot 4 + 1$$

$$c_3 = 0$$