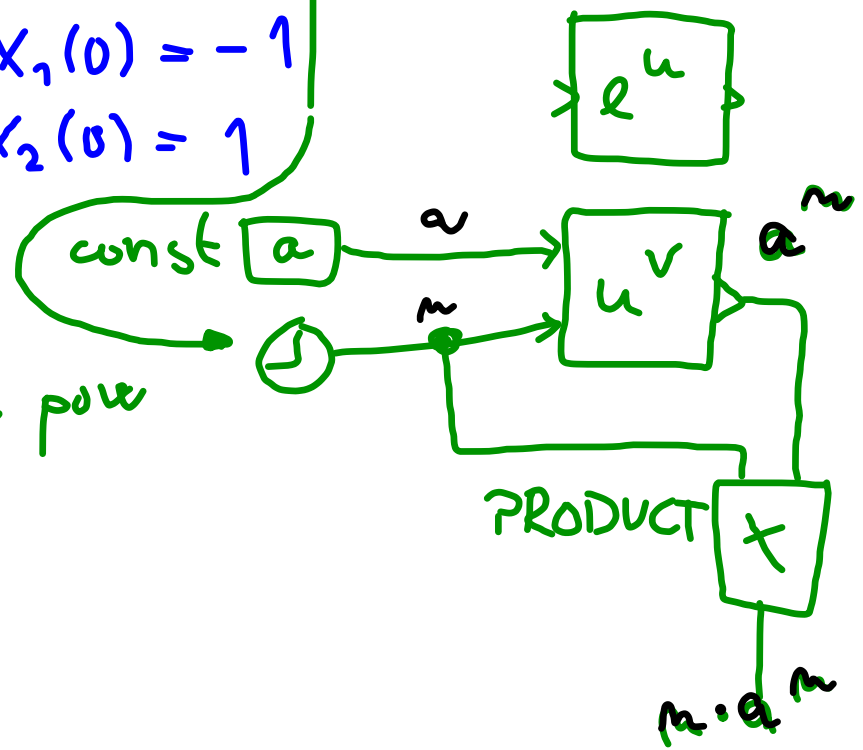
$$x_1(n+1) = 5x_1(n) + 3x_2(n)$$
$$x_2(n+1) = 2x_1(n) + x_2(n) - n \cdot a^n$$
$$y(n) = \frac{1}{2}x_1(n)$$

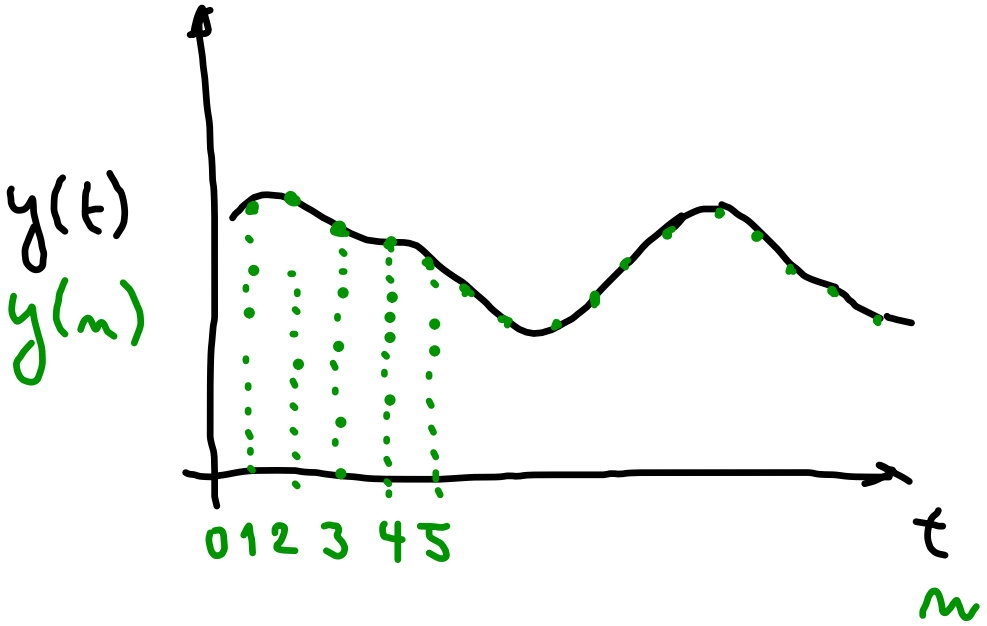
$x_1(0) = -1$

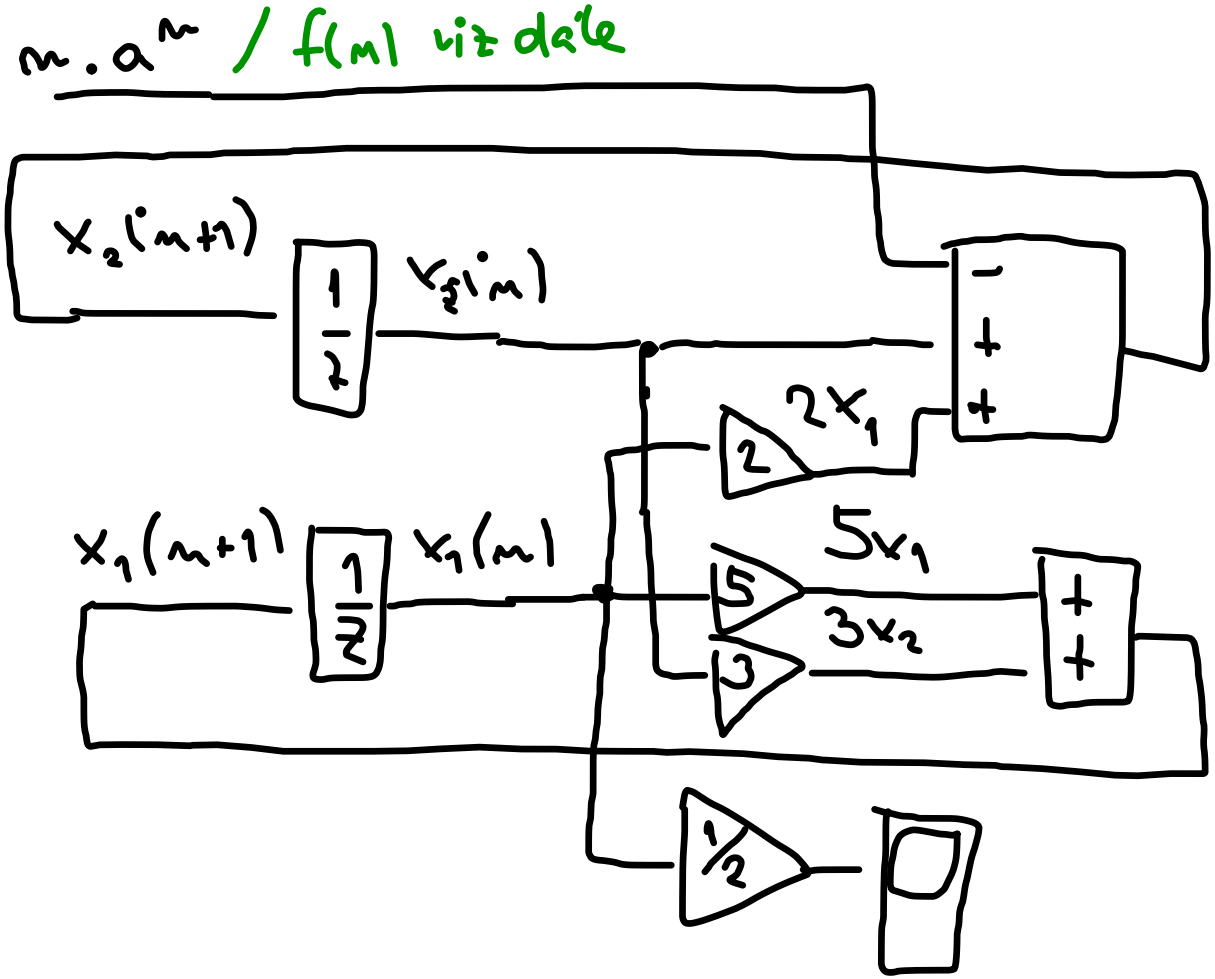
$x_2(0) = 1$

DISKRETNÍ

MATH FUNCTION → power




y(t)
y(n)
0 1 2 3 4 5
t
n


n . a^n / f(n) viz dále
x2(n+1)
1/2
x2(n)
x1(n+1)
1/2
x1(n)
2
2x1
5
5x1
3
3x2
+
+
+
+
1/2

$f(n) : f(m) = f(m+4)$

$f(0) = -1$

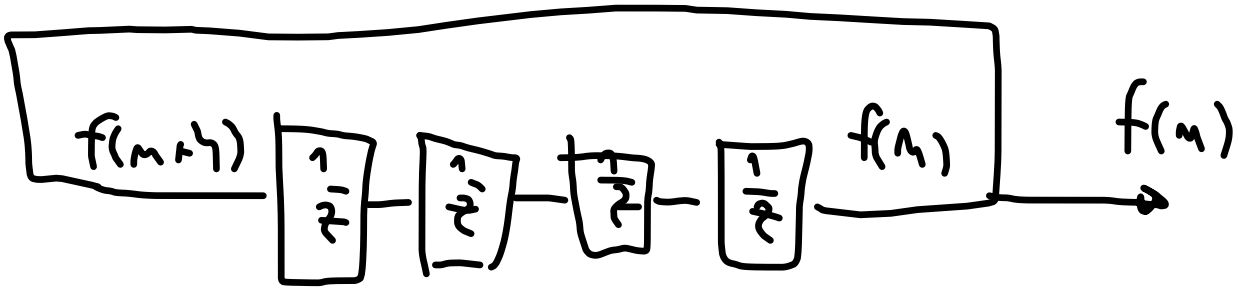
$f(1) = 2$

$f(2) = -2$

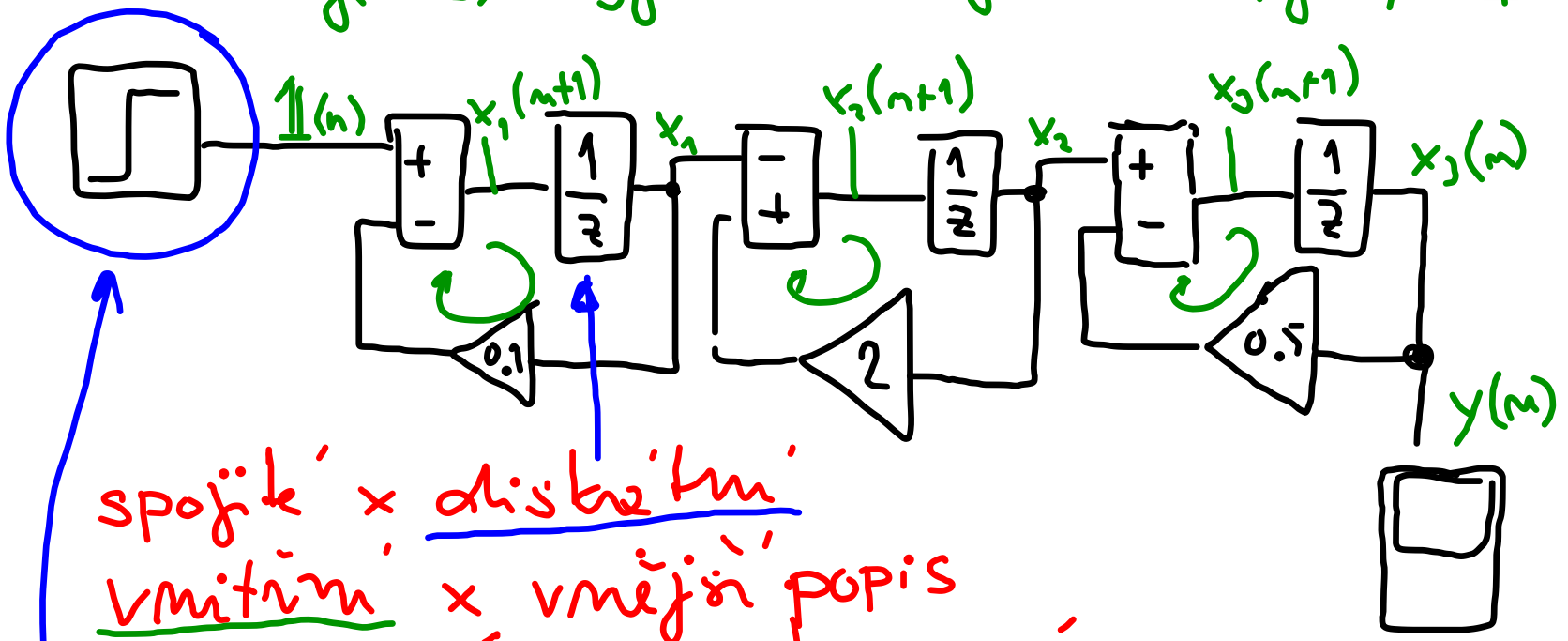
$f(3) = 1$

$\mathcal{Z}\{f(m)\} = \mathcal{Z}\{f(m+4)\}$

$F(z) = ?$



$$y(n+3) + a_3 y(n+2) + a_2 y(n+1) + a_1 y(n) = 1(n)$$



spojité × diskrétní

vnitřní × vnější popis

autonomní × neautonomní

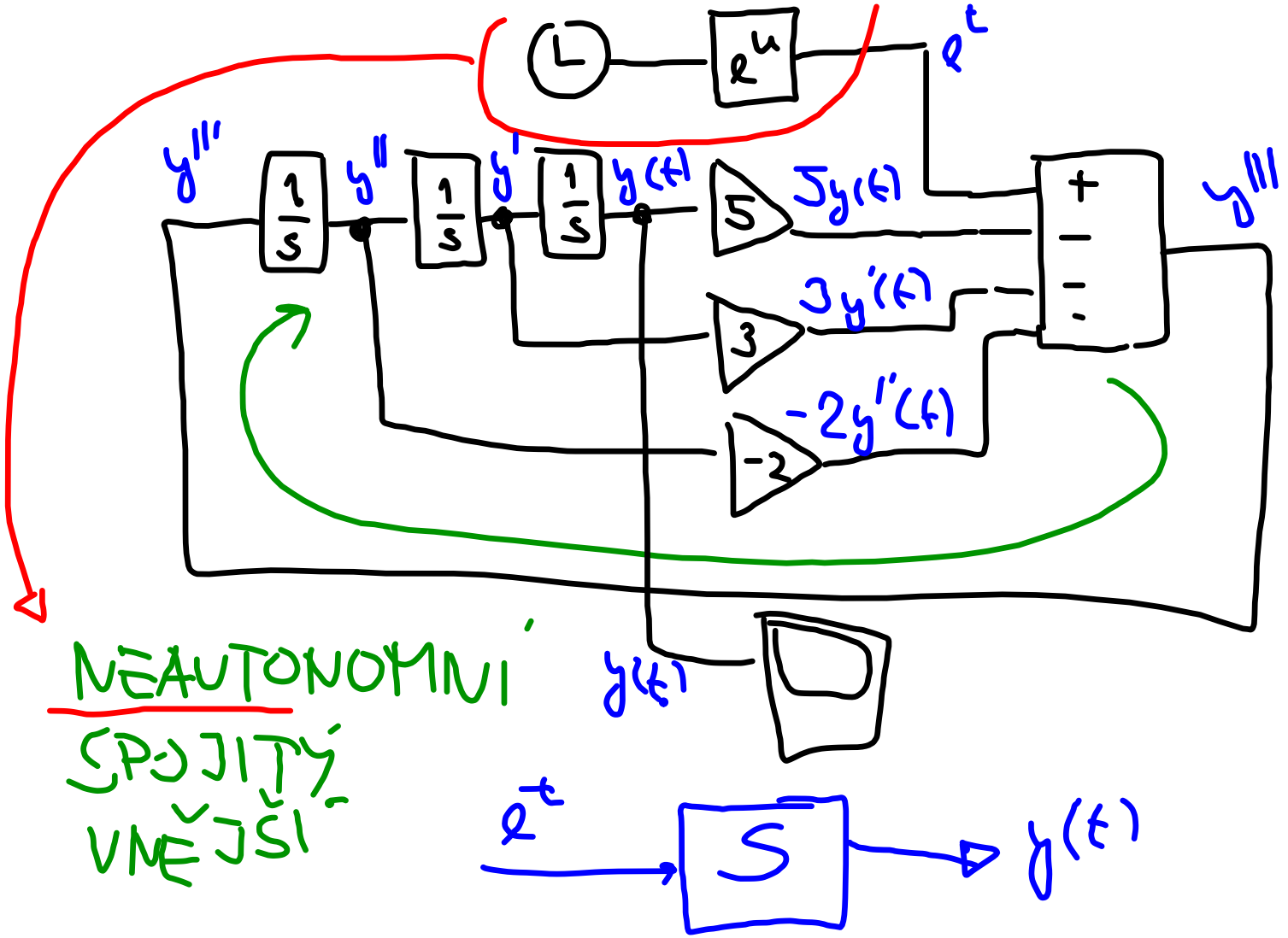
rovnice?

$$x_1(n+1) = a_{11}x_1(n) + a_{12}x_2(n) \ldots$$

$$x_2(n+1) = \ldots$$

$$x_3(n+1) = \ldots$$

$$y(n) = \ldots$$


L
e^{4t}
e^t
y'''
y''
y'
$y(t)$
$\frac{1}{s}$
$\frac{1}{s}$
$\frac{1}{s}$
5
$5y(t)$
3
$3y'(t)$
-2
$-2y''(t)$
+
−
−
y'''
$y(t)$
NEAUTONOMNÍ
SPOJITÝ
VNĚJŠÍ
e^t
S
$y(t)$