Seminar02 - Rezolvare

- Seminar02 Rezolvare
 - o Exercițiu01
 - o Exercițiu02
 - o Exercițiu03
 - o Exercițiu04

Exercițiu01

1)
$$\mathcal{X} = \mathcal{N} \mathcal{X}$$
, $\mathcal{X}(0) = \mathcal{X}_0$

$$\frac{d \mathcal{X}}{d t} = \mathcal{N} \mathcal{X} \quad (\text{ec. cu. van. neparable})$$

$$\frac{d \mathcal{X}}{d t} = \mathcal{N} dt \quad \Rightarrow) \int \frac{1}{\mathcal{X}} d \mathcal{X} = \int \mathcal{N} d t$$

$$\lim_{x \to \infty} \mathcal{X}(0) = \mathcal{X}(0)$$

Exerciţiu02

$$\frac{d *}{dt} = \pi * \cdot \frac{k - k}{k} \quad (ec. cu ven. negarabilo)$$

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$$\frac{1}{*(k - k)} d * = \frac{\pi}{k} dt$$

$$\frac{\pi}{k} d$$

Exerciţiu03

$$\frac{k}{k} = e^{-nt}$$

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$$\frac{k}{k(0)} = \frac{k}{e^{-nt}} = \frac{k}{k(0)} =$$

Exerciţiu04

(b)
$$\frac{dx}{dt} = kx(1-x)(a-kx)$$
, $\frac{1}{x_0} = \frac{1}{x_0}$
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