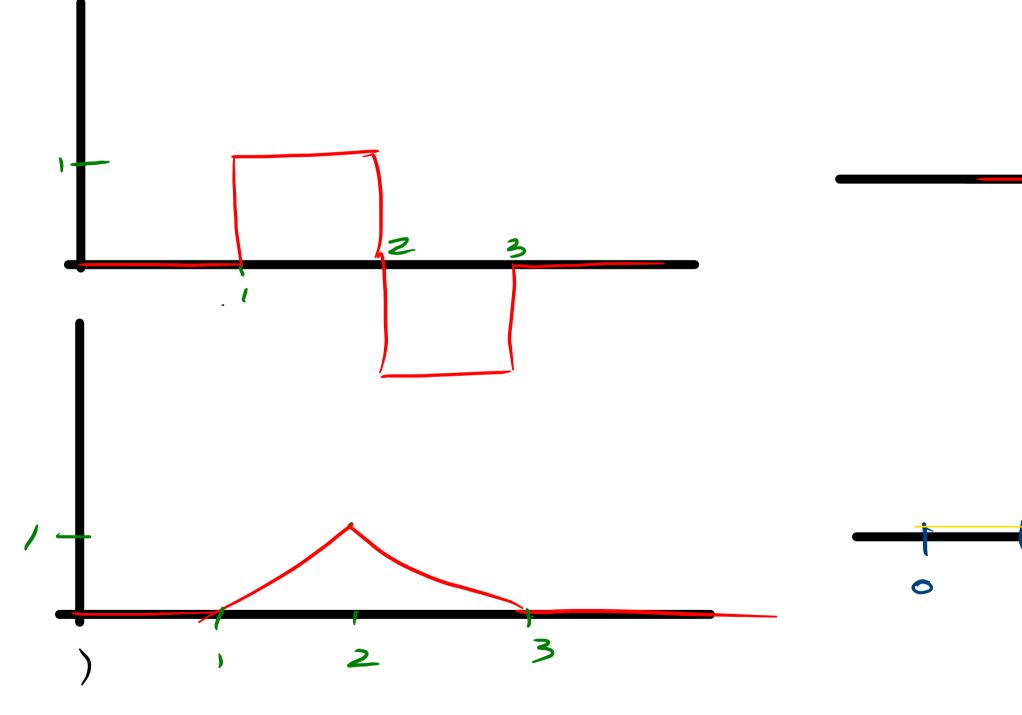
Minicurso Sistemas Lineares Aula 2

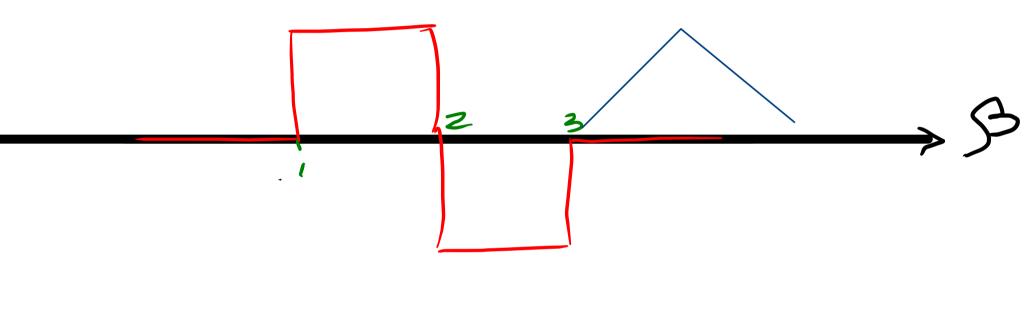
CABEL

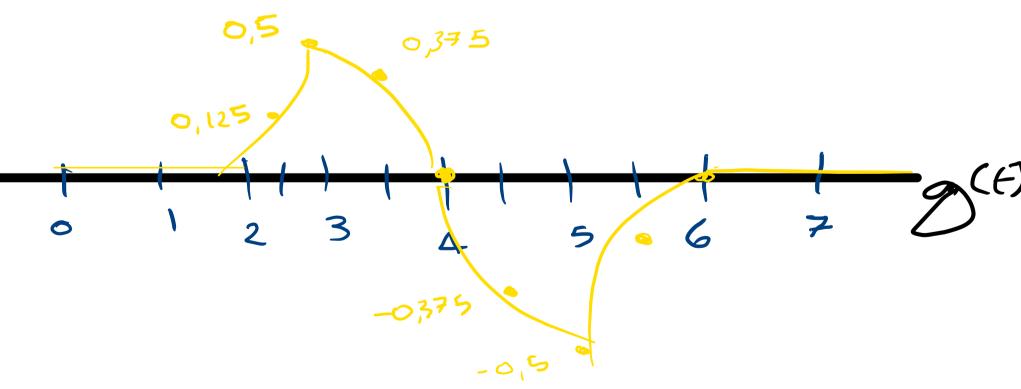
Luces Zischler

Exercícios:

1 Redize 2 Convolução





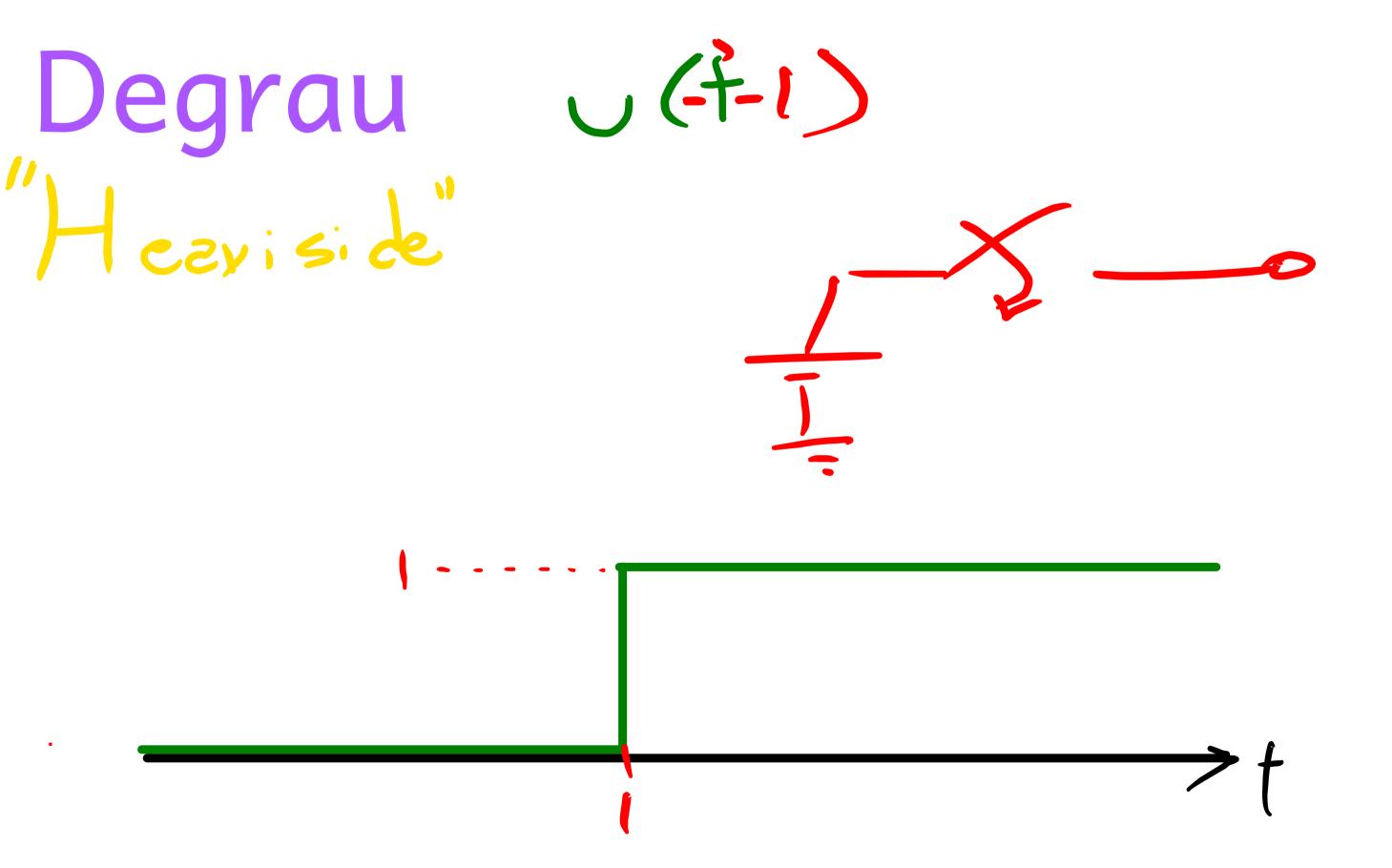


2 Classifique os Sistemas

BIBO instével não ceusel linean 2 Classifi ve os Si temas

BIBO estérel Causal Não Linear

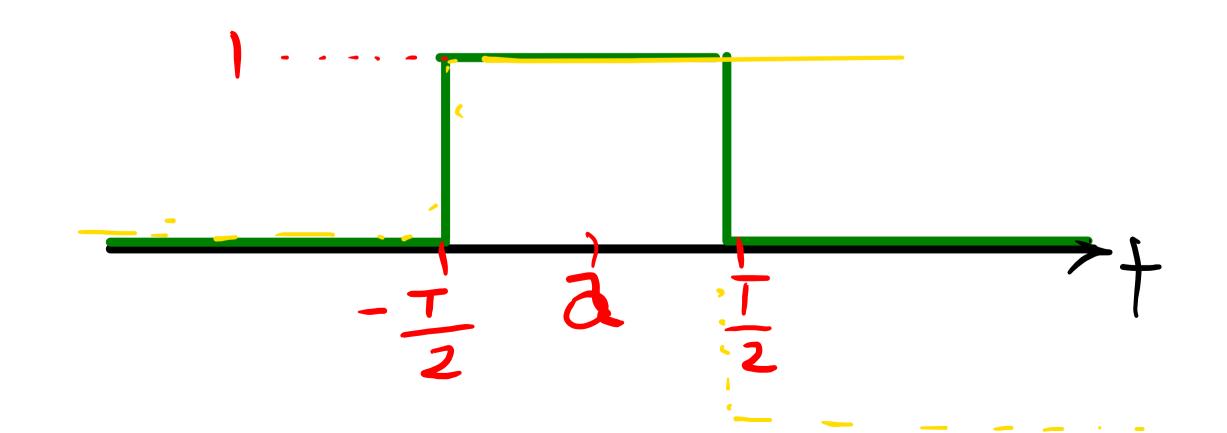
SINAIS COMUNS



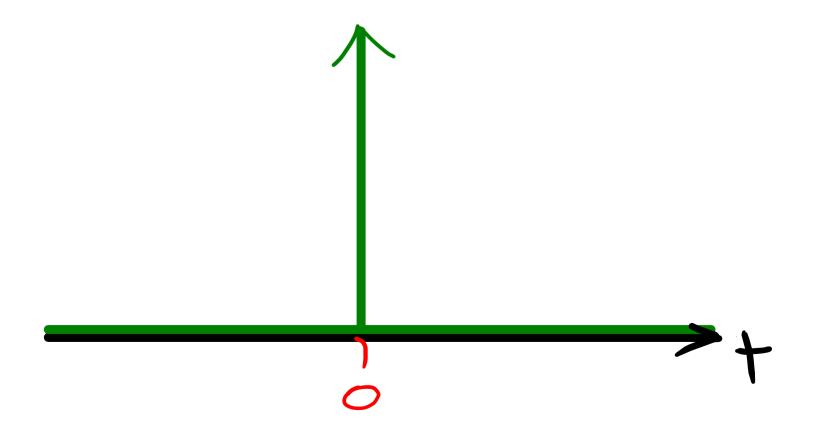
SINAIS COMUNS

Gate
$$G_{\tau}(t-z)$$

 $G_{\tau}(t) = U(t+\frac{\tau}{2}) - U(t-\frac{\tau}{2})$



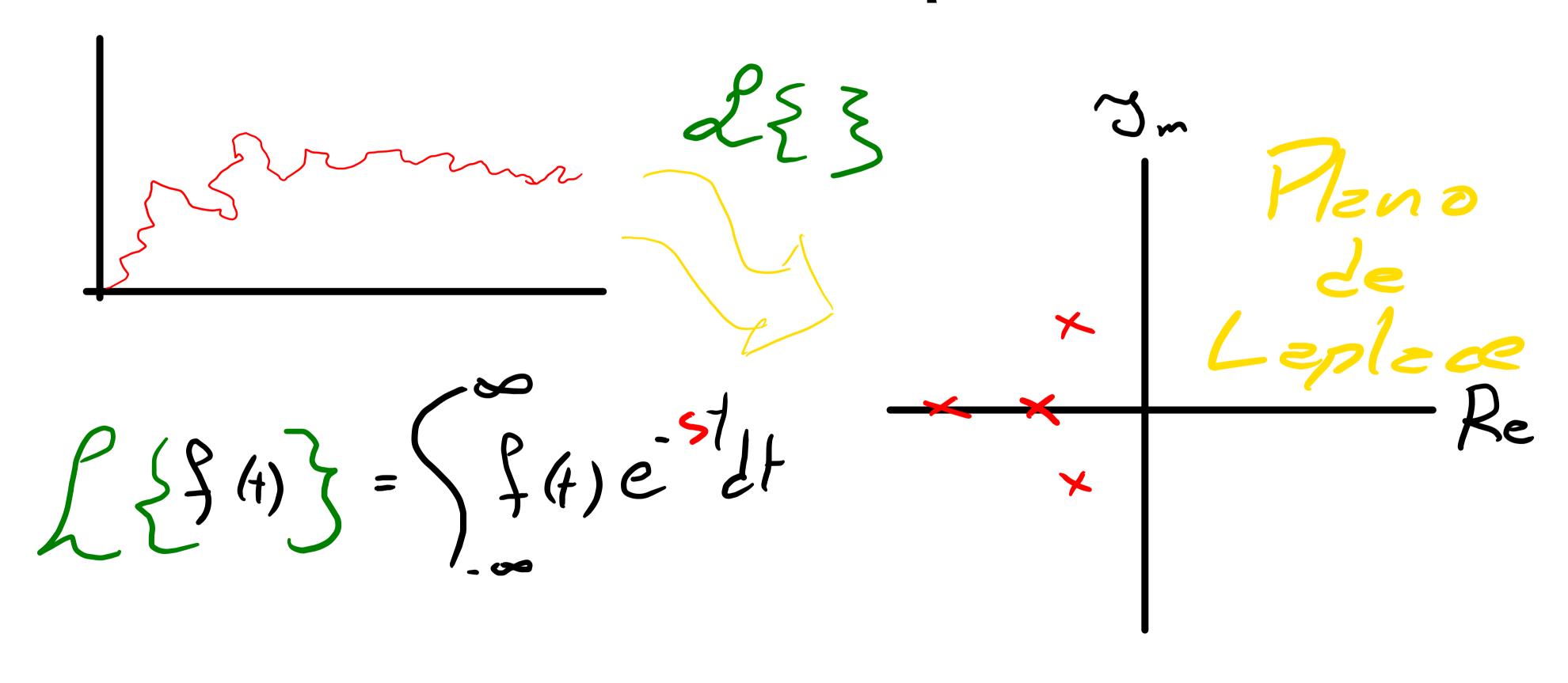
SINAIS COMUNS

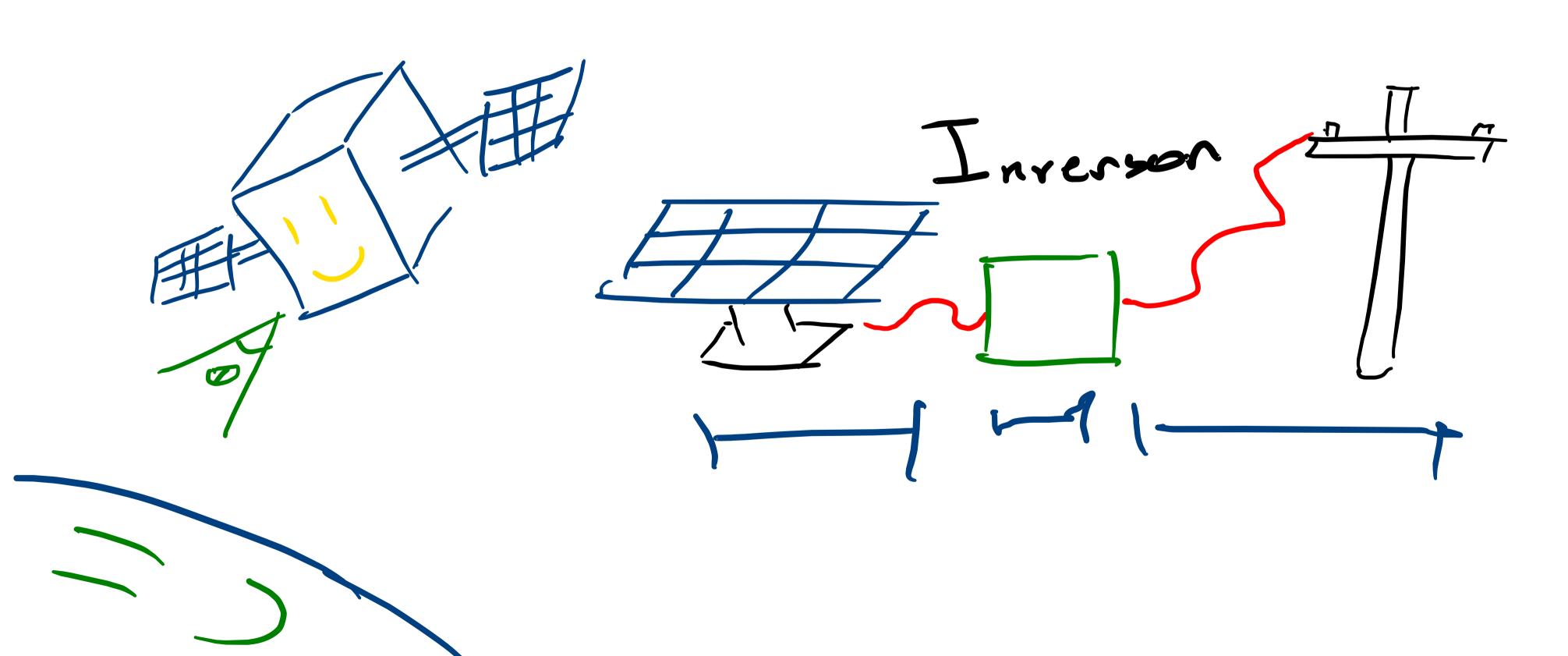


Transformada de Laplace

$$= e^{At} + e^{At} +$$

Transformada de Laplace





$$\int_{-\infty}^{\infty} \{f_{1}(t) + f_{2}(t)\} = \int_{-\infty}^{\infty} \{f_{1}(t)\} + \int_{-\infty}^{\infty} \{f_{2}(t)\} = \int_{-\infty}^{\infty} \{f_{2}(t)\} + \int_{-\infty}^{\infty} \{f_{2$$

$$e^{2t-3}$$

$$e^{2t-3}$$

$$e^{-3t}$$

(+-3) e"u(+-5) e"t dt eb(ce-s)t - eb (2-9) eb(e-s)t - eb (2-9)

(2-5)00

Propriedade do deslocamento em t

$$f(+) \rightarrow f(+-b)$$

$$f(+-b) = e^{-sb} \left\{ f(+) \right\}$$

25 sen(0t) $u(t)^{2} = \frac{6}{5^{2}+6^{2}}$ $i_{5}=\sqrt{-1}$

$$\frac{1}{25} \left[\frac{250}{5+580-50-50} \right] j = \sqrt{-1} j = -1$$

Exercício

$$2\{G_2(t)\}$$
 $G_2 = U(t+1) - U(t-1)$

$$2\{\cos(\Theta t)\cup(t)\}$$

$$\cos(\Theta t)=\frac{\sin(\theta t)}{2}$$

Material e informações de contato:

www.lucas.zischler.nom.br

Obrigado pela atenção