



TE227

Classificação de sistemas

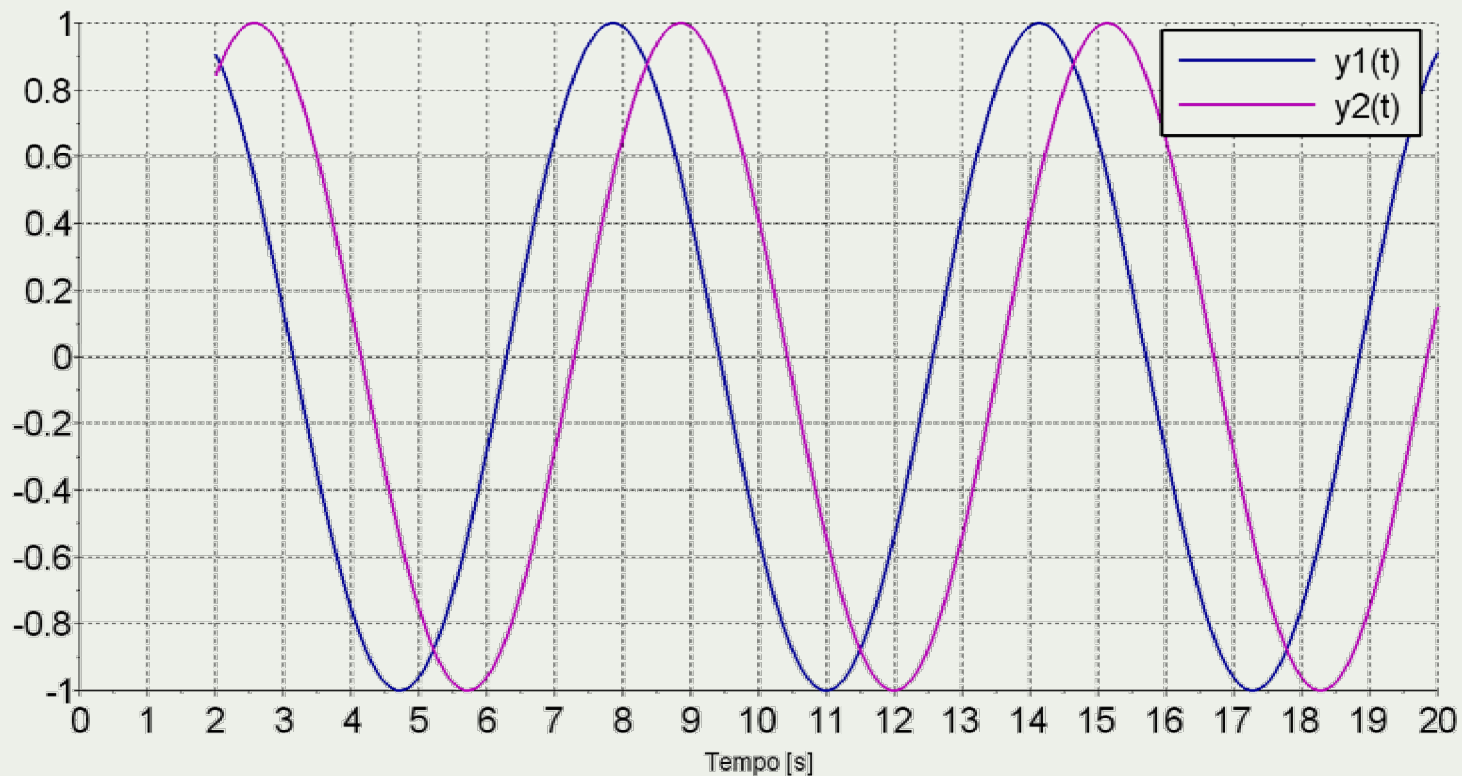
Prof^a Juliana L. M. Iamamura

Exemplo: sistema invariante no tempo

$$y(t) = x(t + 2)$$

$$x(t) = \text{sen}(t)$$

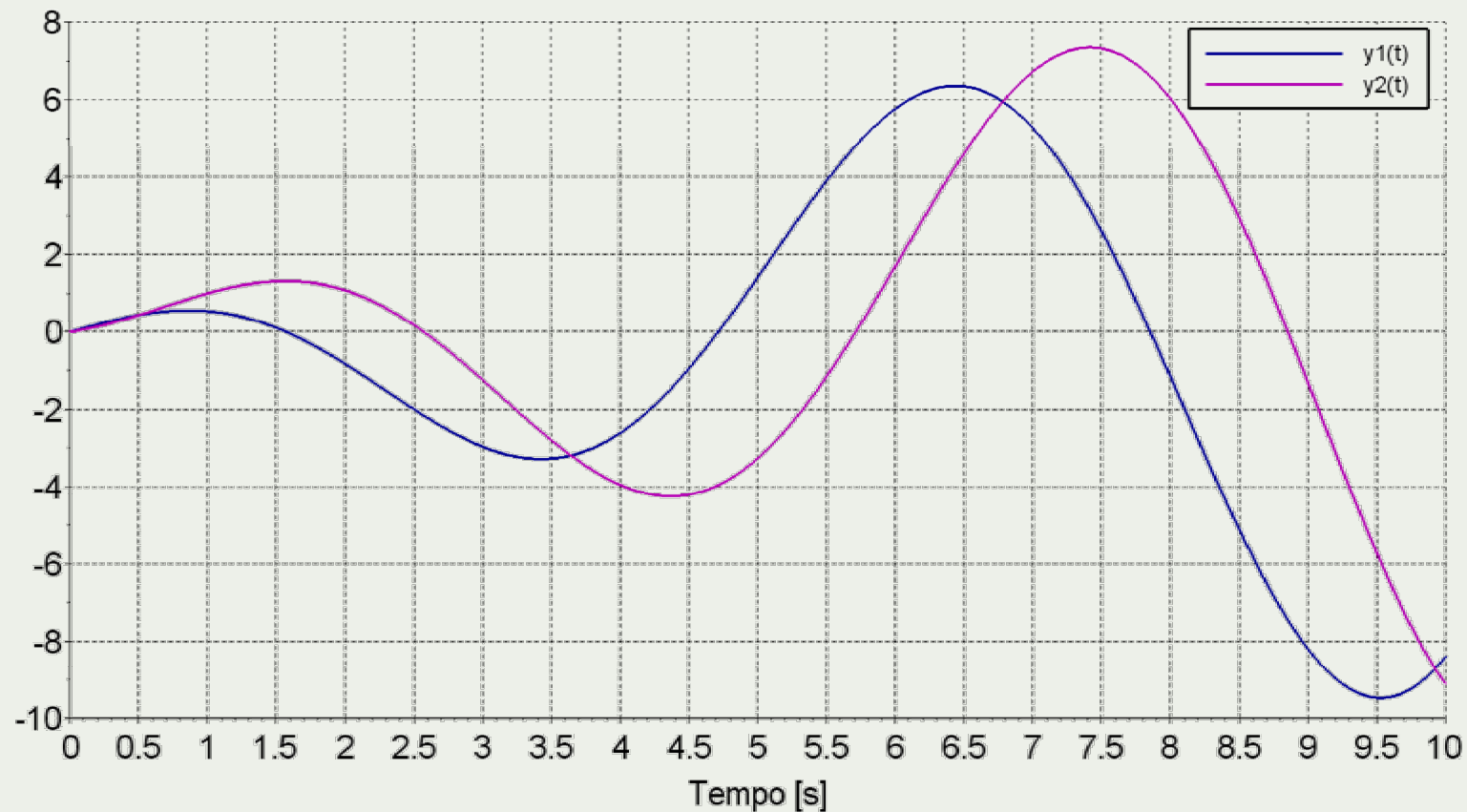
$$y_2(t) = y_1(t - 1)$$



Exemplo: sistema variante no tempo

$$y(t) = tx(t)$$
$$x(t) = \cos(t)$$

$$y_2(t) \neq y_1(t-1)$$

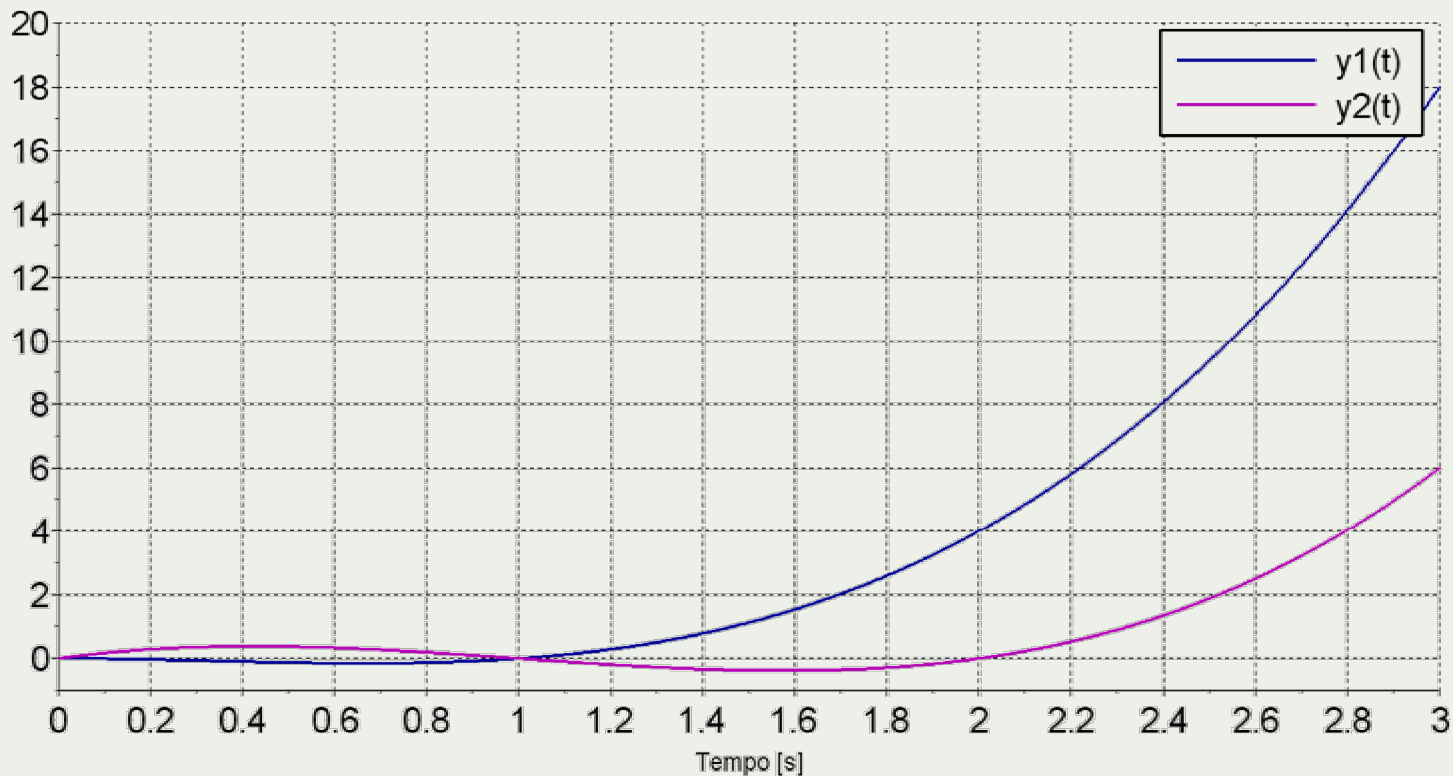


Exemplo: sistema variante no tempo

$$y(t) = tx(t)$$

$$x(t) = t(t-1)$$

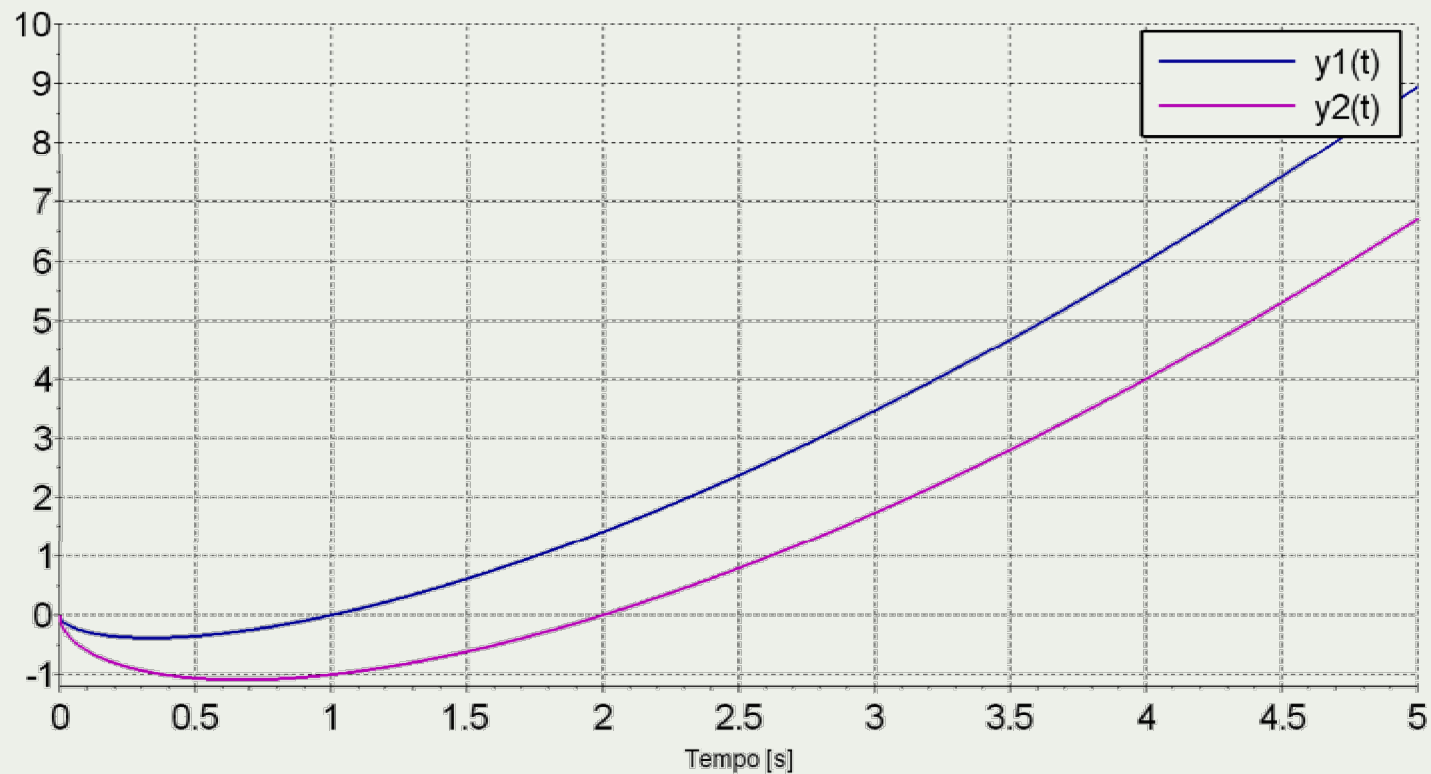
$$y_2(t) \neq y_1(t-1)$$



Exemplo: sistema variante no tempo

$$y(t) = \sqrt{t} x(t)$$
$$x(t) = (t - 1)$$

$$y_2(t) \neq y_1(t - 1)$$



Exemplo: sistema variante no tempo

$$y(t) = \text{sen}(t)\text{sen}[x(t)]$$

$$x(t) = t(t - 1)$$

$$y_2(t) \neq y_1(t - 1)$$

