At. Systemergenschafter.

 $Y(t) = \int dt (t) = \int dt (t)$ Transparation il. : ideales bestarbes v: 4(4) = V = (4) Libean Late Syseration in the private: x(4) = xn(4) + x2(4) -> y(4) = Toly(4) {
= Toly(4) + x2(4) {
= Toly(4) + x2(4) { Fall des liveal hat: Homogenikat

Etteratorie Lacura Jak

Subject: $k_1(t) = cos(cost)$; System: $Y_1(t) = \frac{1}{2}cos(cost - \frac{1}{2})$ Frequency: $k_2(t) = sin(cost) \rightarrow Y_2(t) = \frac{3}{2}$ $= cos(cost - \frac{1}{2}) = cos[cos(t - \frac{1}{2})] = in(t - \frac{1}{2}io)$ $= cos(cost - \frac{1}{2}io) = \frac{1}{2}cos[cos(t - \frac{1}{2}io)] = in(t - \frac{1}{2}io)$ $= \frac{1}{2}cos(cost - \frac{1}{2}io) = \frac{1}{2}cos[cos(t - \frac{1}{2}io)]$ $= \frac{1}{2}cos(cost - \frac{1}{2}io) = \frac{1}{2}cos[cos(t - \frac{1}{2}io)]$

2.3 4-1-1-54-5/1/1/2/2

 $|f(r)| \leq M < 0$ $|f(r)| \leq M < 0$ $|f(r)| \leq M < 0$ $|f(r)| \leq M < 0$

Etile-Subilitat: Bounded Iup t Bounded Duppet

Mass sect: F(4) = F(4) $Y(6) = 1 - e^{-t}$ immers here $Y(6) = 1 - e^{+t}$ with show

2.4 Lesses Lesses

Wirland wie un Visade.

i V2.1. System expended the (4)

(4)

(5)

(5)

(6)

(7)

(7)

 $\chi(4) = wc i24.$

4(4)=3x(4)-1

a) Linearity? 4n(4) = 3 + n(4) - 1 4n(4) = 3 + 2(4) - 1

13(4) = 3[m (4) ++e(4)] -1

Yn(+)+42(f) = 3xy(+)-1+3+2(f)-1=3[+n(f)++2(f)]-2.

=> nicht linear!

c) Kangalitet?

Kenne dethersched sang = Mannal!

d) Skapitikit?

- Skapit!

Shed de Systeme e) linear? (3) settimatent?

1) $y(t) = \frac{d}{dt}(x(t))$ 2) $y(t) = x^2(t)$ 3) y(t) = x(-t)

6) Y(H) = m(H) + (H), m(H) = sin (a+)

4) Y(4) = x(4) +1 Y(4) = x(4) +1 Y(4) = x(4) +1 Y(4) = x(4) +1 Y(4) + x(4) +1 Y(4) + x(4) = [(4) + x(4)] + x(4)] Y(4) + y(4) = [(4) + x(4)] + x(4)] + x(4)] The second of		ysku eggustafet.
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