ONEPATOR KOWY AY

$$\int_{x}^{\infty} = f(t,x)$$

$$\int_{x}^{\infty} (t_0) - y$$

TOFAA
$$X_{tot_1}(y) = \hat{\chi}(t_1)$$

CBOUCEBA:

- · X++= id
- · Xtztz · Xtitz Xtitz
- X+ = X st
- · Xts (y) MEMPEPBUBHA no (t, s, y)

NEMMA ECM YPABRERIE X= F(t, x, X)

UNEET NAPAMETP, F- WENDEPERBURA

X+ - ELO OVELULOS KOMA

TORMA XXX (y) WERP. no (y, to, ti,)

$$\begin{cases} \hat{x} = f(t, x, \lambda) \\ \chi(t_0) = y \end{cases}$$

$$\frac{d^2}{ds}(s) = \sqrt[8]{(b_0+c)} = \int (b_0+c) \times (b_0+c) = \int (b_0+c)$$

$$d = f(t_0 + s_1, z(s), \lambda)$$

 $Z(0) = y$

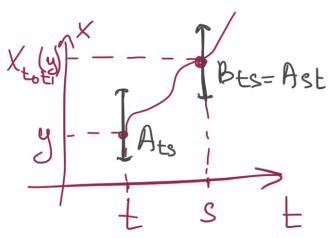
$$Z_{\lambda,t_0,y}(s)$$
 - MERP. no (λ,t_0,y,s)

$$X_{t_0t_1}(x) = Z_{\lambda,t_0,y}(t_1-t_0) = X_{t_0t_1}(x)$$

WENDED.

$$B_{ts} = X_{ts}(A_{ts}) =$$

$$= A_{st}$$



X st: Ast > Ast wenp.

BUBOA: Xts-romeonopousm

ABTOHORIZEDLE AY (HE BABUCAT) $\hat{X} = F(x)$

NEMMA: ECM X-PEW-UE, TO $\hat{\chi}(t) = \chi(t+a) - \text{TOTHE PEW-UE} \quad \forall a \in \mathbb{R}$ (WHENTU CABANU: CABUT NO BRENERU) NEPEBOAUT PEWERUA B CEBA

$$A-B0: \mathring{\chi}(t)=\mathring{\chi}(t+a)=f(\chi(t+a))=f(\mathring{\chi}(t))$$



DIP: NPEOBPASOBAHUE NOTORA ABTORDINADO AMY - STO

$$g^{t} = X_{o,t}$$

$$(2) g^{t+s} = g^{t} \circ g^{s}$$

$$g \circ g = X_{0,t} \circ X_{0,s} = X_{s,t+s} \circ X_{0,s} = X_{0,t+s} = g^{t+s}$$

CABUT HAS

CB-BO 2

3)
$$q^{-t} = (q^{t})^{-1}$$

4)
$$g^{t}(x)$$
 wenp. no (t,x)

$$\dot{X} = F(t,x)$$

$$\times (t_0) = x_0$$