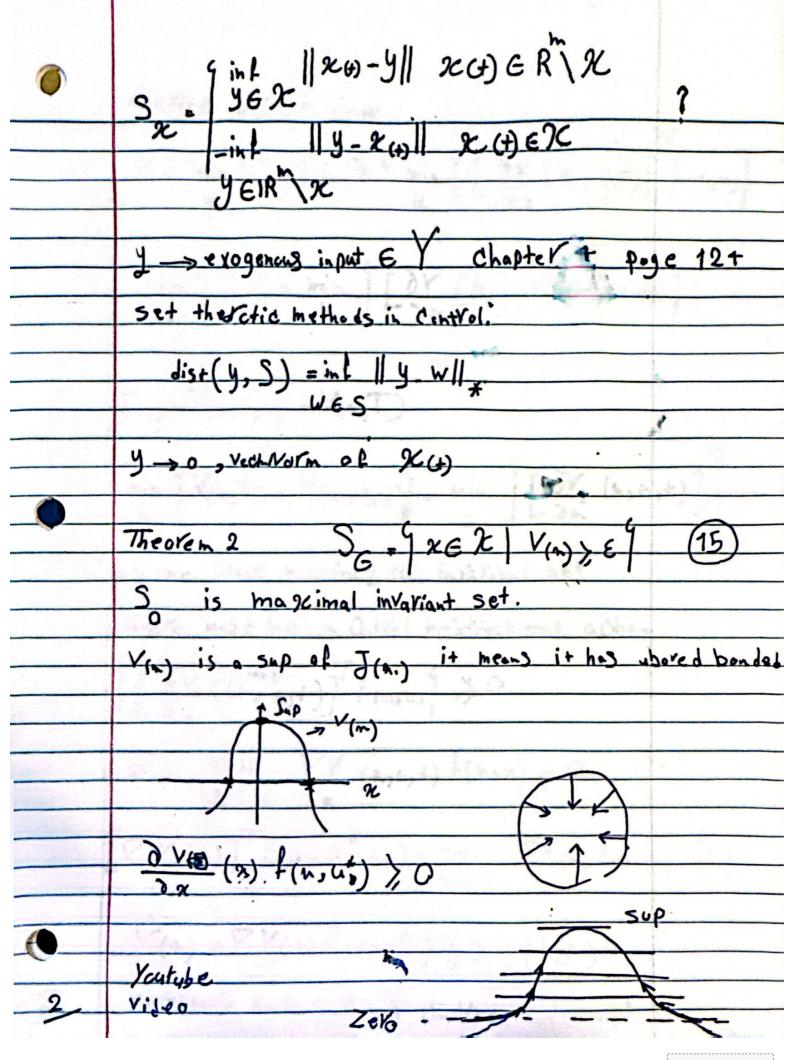
9 (houst) + [] (houst f(x, u) 1 J(100,4(1)) = inf - 3 x (x(+)) * 9 (x,4,+) Sz (x4) (0 x(+) -> a trajectory why ? J (x., u(.)) >0 V (K.) = J (x0, 40) Une PC (IRzosu) Signed-Distance Function: closed and time invariant the Complement al all macceptable failure states



Veurite HJ c = min { J () } + 3 min { - min | J() = min | [dv (2, 4, +)] f(n, 4) min (V(n,T) - V(not, u) = min want maximiz the invariant set 1 9x (nyxx+)) mage Pr (2,4,+) f(2,4) } Kran) = mase Printe V(n) = PV(n) f(nskv) >0 necessary and suffert dudition hagamos

forward invarient set under Kr Kf (mou) = 1 KV (m) VIMXE OV U & U. 0=min 9-5x (2) - Y(m) , mage (V(m) f(m, in) sufficent Condition on the boundary or go inside Nesseastry andition remain inside the invariant set.