(2.179) the poincare variables (The ten stormation of the DE Launy vacables.

 $T = \alpha \left(1 - \sqrt{1 - \epsilon^2} \right) \quad Y = -\omega - \Omega$ R=K, e2 +Kz ée +Kz e e' cosciso w')

 $\begin{cases}
\frac{de}{dt} & V = -\omega \\
\frac{d\omega}{dt} & \frac{dV}{dt} = \frac{e^2}{2} & \frac{dV}{dt} = \frac{e^$ _dw = ½ BRIBE

Eqe19F = 08100

(complex canonical variables $Z = \sqrt{p} \in Q$ $Z^* = Z' = \sqrt{p} \in Q$

3 = 1/2 is defe = 1 04/10-2*

$$\frac{z}{\sqrt{2}} = \sqrt{2} \left(\frac{z}{\sqrt{2}} \right) = \frac{1}{2} \left(\frac{z}{\sqrt{2}} \right) = \frac{1}{2} \left(\frac{z}{\sqrt{2}} \right) + \frac{1}{2}$$

$$\begin{aligned}
& \underbrace{i\omega,t}_{dt} & \underbrace{d\tau_{e} \cdot \omega \cdot t}_{=} & = ib\epsilon \\
& \underbrace{dt}_{=} & \underbrace{-i\omega,t}_{=} & \underbrace{-i\omega,t}_{=} \\
& \underbrace{-i\omega,t}_{=} & = -\frac{b}{\omega,t} \cdot \underbrace{-i\omega,t}_{=} \\
& \underbrace{-i\omega,t}_{=} & \underbrace{-i\omega,t}_{=} & \underbrace{-i\omega,t}_{=} \\
& \underbrace{-i\omega,t}_{=} & \underbrace{-i\omega$$