ZF=Masp FH= Mspasp At steady state, we know that ETH = 0 because &= 0. Therefore, Etc. - KOpax - Msp asp (dcos Oss) = IO age = The

$$-KO_{ss} = M_{sp} \left(\frac{F}{M_{sc}} \right) d \cos \theta_{ss}$$

$$J(0) = KO_{ss} + M_{sp} a_{sp} \left(d \cos \theta_{ss} \right)$$