## Answer to HW Problem 19.1

(a) max. power is 0.24 W
(b) EOM: $\quad 9.33 \dot{T}+T=80\left({ }^{\circ} \mathrm{C}\right)$
(c) $T_{S S}=80^{\circ} \mathrm{C}$
(d) Time to reach $79^{\circ} \mathrm{C}$ is 38 sec .

