V_{out}= 30kV

V_{in}= 24V A_{in}= 6.25A P = 150W

P = $I^2 \cdot R$

I_{tot}= 30kV/200MΩ = 150μA

$P_1 = P_3$= (150 μA)$^2 \cdot$ 100MΩ = 2.25W

P_2= (150 μA)$^2 \cdot$ 10kΩ = 225μW

V_{R1}= 150 μA $\cdot$ 100MΩ = 15V

V_{R2}= 150 μA $\cdot$ 10kΩ = 1.5V