



## ESERCITAZIONE

## ESERCIZIO 2

$$\Delta V = Q_{g} - L \implies Q_{g} = \Delta V + L = nC_{V}(T_{F} - T_{i}) + L = nC_{V}(T_{F} - T_{i}) + nR(T_{F} - T_{i}) = n(C_{V} + R)(T_{F} - T_{i})$$

$$L = P \cdot \Delta V = Q_{i} \cdot \frac{nR}{g_{i}}(T_{F} - T_{i}) = nR(T_{F} - T_{i})$$

$$Q_{g} + Q_{g} = 0 \implies C_{g}(T_{f} - T_{g}) + \frac{5}{2}nR(T_{F} - T_{i}) = 0 \implies T_{F} = \cdots = \frac{C_{g}T_{g} + \frac{5}{2}nRT_{i}}{C_{g} + \frac{5}{2}nR} = 760.64 \text{ K}$$

L= ··· = 38297.6 J