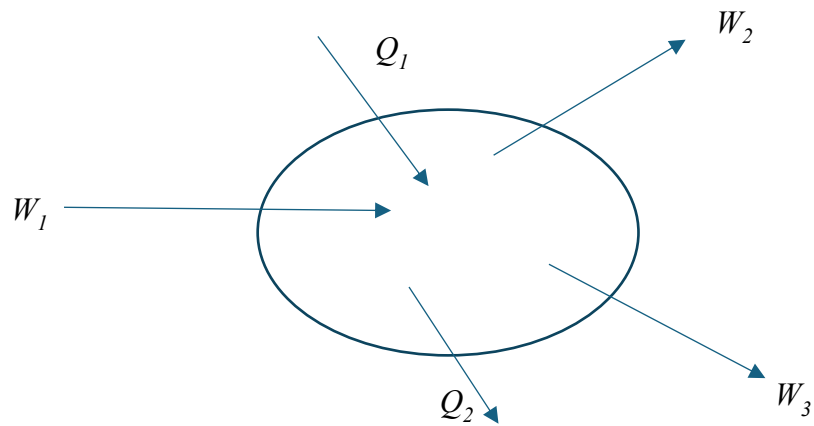


- 14 Consider the following diagram involving heat transfer Q and work W done for a system.



If ΔU is the change in the internal energy of the system, which of the following equations is correct?

- A $\Delta U = (Q_1 - Q_2) + (W_2 + W_3 - W_1)$
- B $\Delta U = (Q_1 - Q_2) + (W_1 - W_2 - W_3)$
- C $\Delta U = (Q_1 + Q_2) + (W_2 + W_3 - W_1)$
- D $\Delta U = (Q_1 + Q_2) + (W_1 - W_2 - W_3)$