



$$\frac{\Delta V_3}{\Delta U_3} = \frac{\Delta V_4}{\Delta U_4} \Rightarrow \Delta U_4 = \frac{\Delta V_4}{\Delta V_3} \cdot \Delta U_3 =$$

$$= \{ \Delta V_4 = V_4 - V_1 \} = \{ V_4 = V_2 \} =$$

$$= \frac{V_2 - V_1}{V_3 - V_1} \cdot (u_3 - u_1) = u_4 - u_1$$

$$\Rightarrow u_4 = \frac{V_2 - V_1}{V_3 - V_1} (u_3 - u_1) + u_1$$