max
$$\left\{ U\left(\omega_{t} - a_{t} - s_{t} \right) + \beta U\left(R_{t}, s_{t} + z_{t}, \right) \right\}$$

$$\frac{\text{Fonc:}}{\partial u(c_t^{\vee})} \cdot \frac{dc_t^{\vee}}{ds_t} + \beta \frac{\partial u(c_{t+1})}{\partial c_{t+1}^{\vee}} \cdot \frac{dc_{t+1}}{ds_t} = 0$$

since
$$C_{t}^{y} \cdot (-1) + \beta \frac{1}{C_{t+1}^{0}} \cdot R_{t+1}^{e} = 0$$

$$u(c) = l_{n}(c)$$

$$\Rightarrow \frac{1}{\omega_t - a_t - s_t} = \beta \frac{R_{t+1}^e}{R_{t+1}^c s_t + z_{t+1}^e}$$

$$\Rightarrow R_{t+1}^{c} s_{t} + z_{t+1}^{c} = \beta R_{t+1}^{e} \left(\omega_{t} - a_{t} - s_{t} \right)$$

$$\Rightarrow (1+\beta)R_{t+1}^{e}S_{t} = \beta R_{t+1}^{e}(\omega_{t}-\alpha_{t}) - z_{t+1}^{e}$$

$$St = S(\omega_{t}, R_{tH}^{e}, a_{t}, 2_{t+1}^{c}) = \frac{1}{1+\beta} (\omega_{t} - a_{t}) - \frac{1}{1+\beta} \cdot \frac{2_{t+1}^{e}}{R_{t+1}^{e}}$$

$$|a|_{bbo} = \frac{1}{1+\beta} \cdot \frac{2_{t+1}^{e$$

$$\widetilde{f}(k_{t}) = k_{t}^{\alpha} + (1-\delta)k_{t}$$
remany
$$f(k_{t})$$
Capital affor
$$divide (per work)$$

$$divide date t$$

$$f(k_{t}) + (1-\delta)k_{t}$$

$$f(k_{t}) + (1-\delta)k_{t}$$

$$(depreciation)$$

$$(t)$$

$$k_{t+1} = \widetilde{f}(k_{t}) - C_{t}$$