$$\frac{\dot{c}}{c_t} = \frac{f'(k) - \rho - \theta g}{\theta}$$

$$\dot{k}_t = f(k) - c - (n+g)k$$

In steady state both k, c grow at rate 0.

$$Ak^{\alpha} - c + (n+g)k = 0$$

$$\alpha A k^{\alpha-1} - \rho - \theta g = 0$$

$$\alpha A k^{\alpha-1} = \rho + \theta g$$

$$k_{ss} = \left(\frac{\rho + \theta g}{\alpha A}\right)^{1/(\alpha-1)}$$

$$c_{ss} = A k_{ss}^{\alpha} + (n+g) k_{ss}$$

$$c_{ss} = A\left(\frac{\rho + \theta g}{\alpha A}\right)^{\frac{\alpha}{\alpha-1}} + (n+s)\left(\frac{\rho + \theta g}{\alpha A}\right)^{\frac{1}{\alpha-1}}$$