2.10):
$$V(k) = \max_{0 \le k' \le Ak} \left(\frac{[Ak - k']^{1-6}}{1-6} + \beta V(k') \right)$$

=)
$$k' = \frac{1}{1+\beta E^{-6}} \cdot Ak = g(k)E$$
 (A3)

$$(\beta E)^{-\frac{1}{6}} = (\frac{1}{A^{16}B})^{\frac{1}{6}} - 1$$

$$\beta E = \left[(\frac{1}{A^{16}B})^{\frac{1}{6}} - 1 \right]^{-6}$$

$$E = \frac{1}{B} \left[(\frac{1}{A^{16}B})^{\frac{1}{6}} - 1 \right]^{-6}$$

output growth:

$$\frac{r_y = \frac{A \cdot A^{\frac{1}{2}} \cdot B^{\frac{1}{2}} \cdot k}{Ak} = (AB)^{\frac{1}{2}}}{2 \cdot 2 \cdot A} = (AB)^{\frac{1}{2}}$$

Saving vole:

$$S = \frac{(A\beta)^{\frac{1}{5}} k}{Ak} = A^{\frac{1}{5}} \cdot B^{\frac{1}{5}} = A^{\frac{1}{5}} \cdot B^{\frac{1}{5}}$$
because $\delta < 1$, $\frac{1}{5} > 0$

$$= \frac{\partial S}{\partial A} = \frac{1}{5} \cdot A^{\frac{1}{5} \cdot 2} B^{\frac{1}{5}} > 0$$

$$= \frac{1}{5} A \int \frac{1}{5} \int \frac{1}{5} \left(A^{\frac{1}{5} \cdot 2} B^{\frac{1}{5}} \right) ds$$

$$= \frac{1}{5} A \int \frac{1}{5} \int \frac{1}{5} \left(A^{\frac{1}{5} \cdot 2} B^{\frac{1}{5}} \right) ds$$