

Appendix B:

The features of the utility function and the signs of relevant partial derivatives of $\dot{q} = 0$ and $\dot{b} = 0$.

	$U_{cl} = 0$	$U_{cl} < 0$	$U_{cl} > 0$
(1) $\left. \frac{\partial K}{\partial \pi} \right _{\dot{q} = 0, \tilde{\lambda}}$	$= 0$	> 0	< 0
(2) $\left. \frac{\partial K}{\partial \tilde{\lambda}} \right _{\dot{q} = 0, \pi}$	> 0	> 0	> 0
(3) $\left. \frac{\partial K}{\partial \pi} \right _{\dot{q} = 0, \tilde{\lambda}^+}$ $\left(\left. \frac{\partial K}{\partial \tilde{\lambda}} \right _{\dot{q} = 0, \pi} \right) \left(\frac{\partial \tilde{\lambda}}{\partial \pi} \right)$	< 0	ambiguous	< 0
(4) $\left. \frac{\partial K}{\partial \pi} \right _{\dot{b} = 0, \tilde{\lambda}}$	< 0	< 0	< 0
(5) $\left. \frac{\partial K}{\partial \tilde{\lambda}} \right _{\dot{b} = 0, \pi}$	< 0	< 0	< 0
(6) $\left. \frac{\partial K}{\partial \pi} \right _{\dot{b} = 0, \tilde{\lambda}^+}$ $\left(\left. \frac{\partial K}{\partial \tilde{\lambda}} \right _{\dot{b} = 0, \pi} \right) \left(\frac{\partial \tilde{\lambda}}{\partial \pi} \right)$	< 0	ambiguous	ambiguous
(7) $\left. \frac{\partial K}{\partial q} \right _{\dot{b} = 0, \pi, \tilde{\lambda}}$	> 0	> 0	> 0