

Network Simulation

Econ Research Project

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Parameter Setting

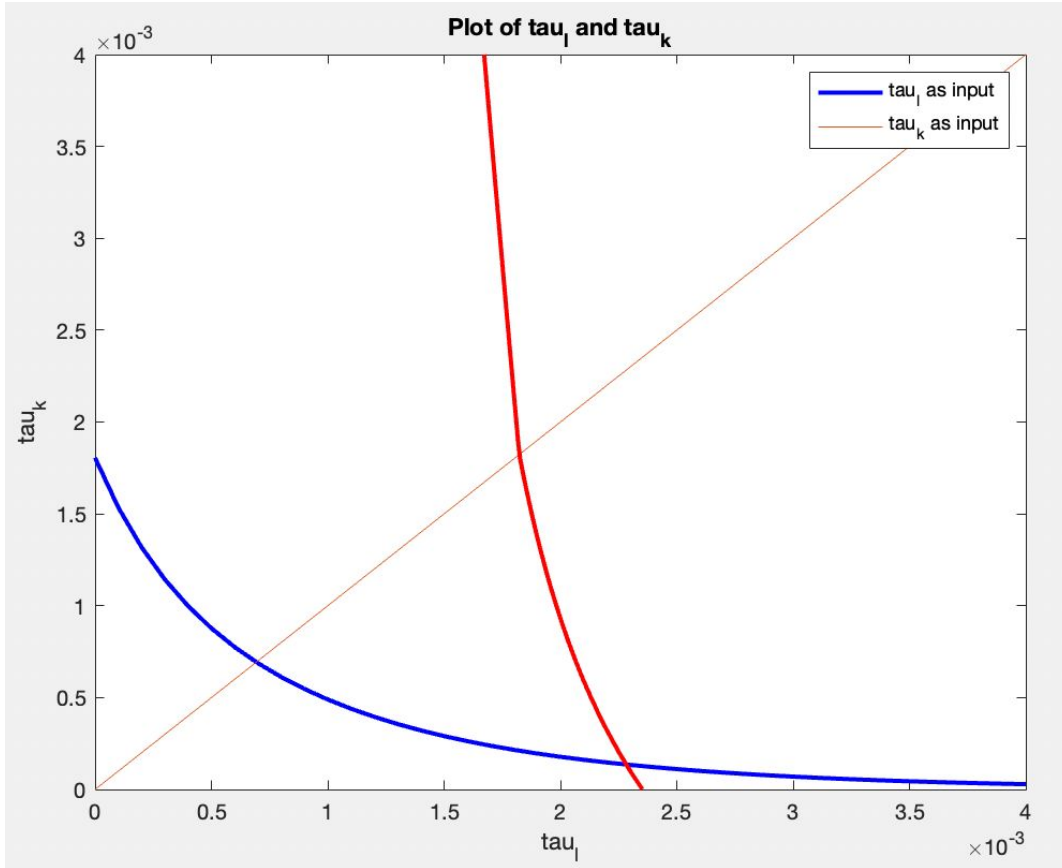
$x=2, y = (x-c)/r=1, c=1, r=1, p_0=0.5$

c/x (myopic) $= 1/2$

$c/(x+y)$ (single-agent) $= 1/3$

K=100:

(tau_l,tau_k)=(0.00228,0.00014)



Indifference condition for core(τ_l as input):

$\tau_l = 0:0.0001:0.004;$

$\tau_k =$

0.0018	0.0015	0.0013	0.0011	0.0010	0.0009
0.0008	0.0007	0.0006	0.0005	0.0005	0.0004
0.0004	0.0004	0.0003	0.0003	0.0003	0.0002
0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.0001	0.0001	0.0001	0.0001	0.0000	...

Indifference condition for peripheral(τ_k as input):

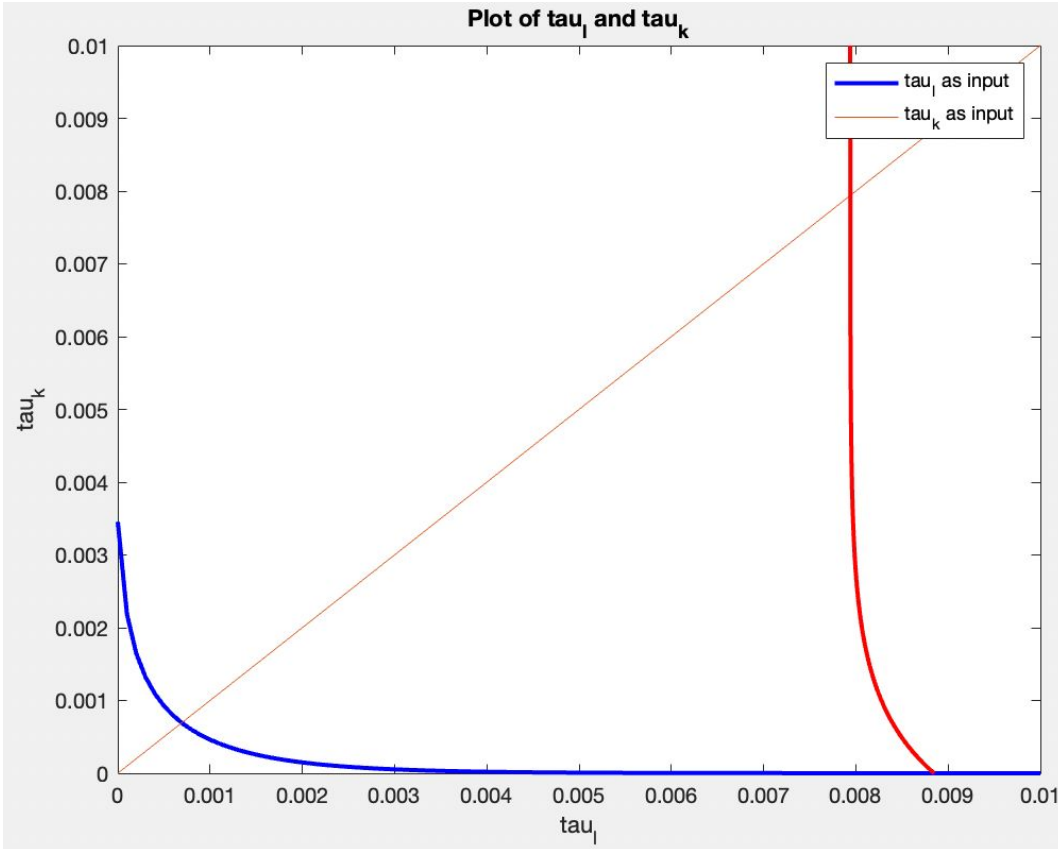
$\tau_k = 0:0.0001:0.004;$

$\tau_l =$

0.0024	0.0023	0.0023	0.0022	0.0022	0.0021
0.0021	0.0021	0.0020	0.0020	0.0020	0.0020
0.0019	0.0019	0.0019	0.0019	0.0019	0.0018
0.0018	0.0018	...			

K=10:

(tau_l,tau_k)=(0.00885,0)



Indifference condition for core(τ_l as input):

$\tau_l = 0:0.0001:0.01$

$\tau_k =$

0.0035	0.0022	0.0016	0.0013	0.0011
0.0009	0.0008	0.0007	0.0006	0.0005
0.0005	0.0004	0.0004	0.0003	0.0003
0.0003	0.0002	0.0002	0.0002	0.0002
0.0001	0.0001	0.0001	0.0001	0.0001
0.0001	0.0001	0.0001	0.0001	0.0001
0.0001	0.0000	...		

Indifference condition for peripheral(τ_k as input):

$\tau_k = 0:0.0001:0.01$

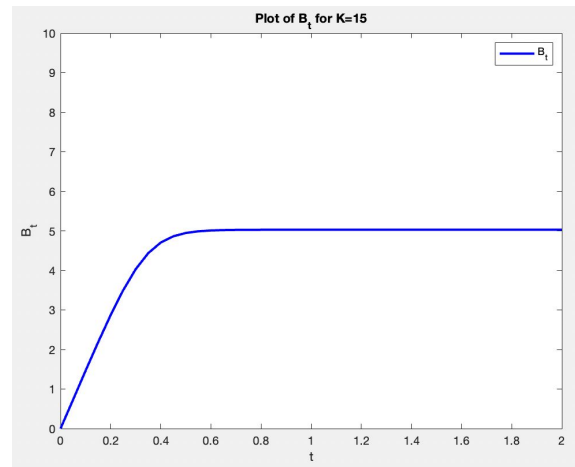
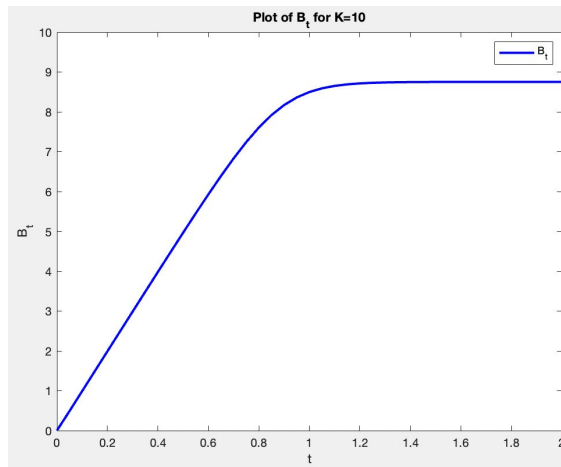
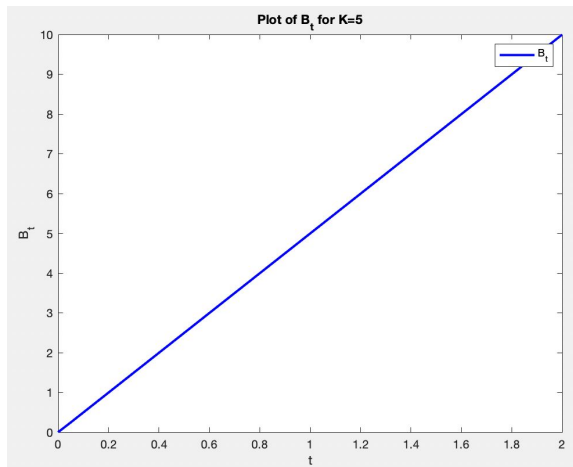
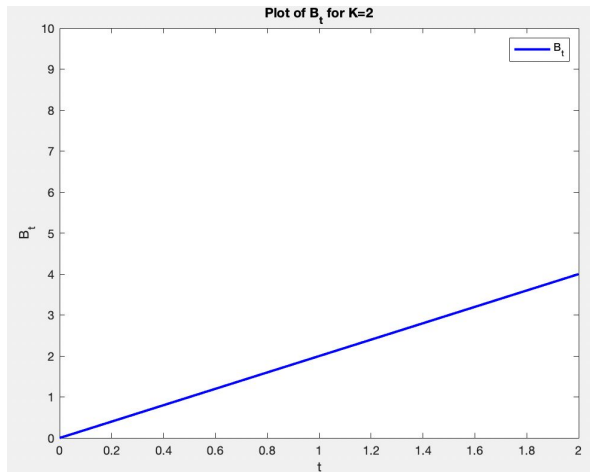
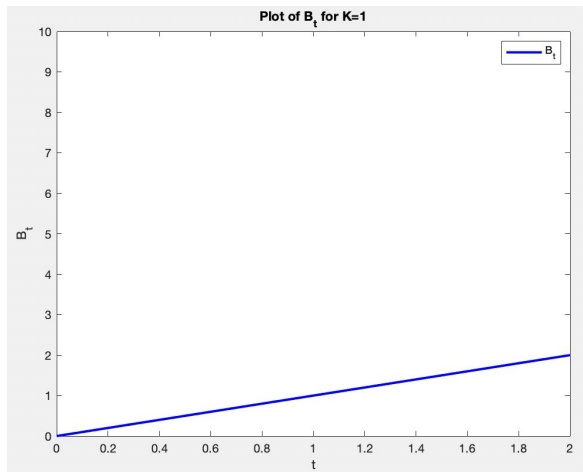
$\tau_l =$

0.0088	0.0079	0.0079	0.0079	...
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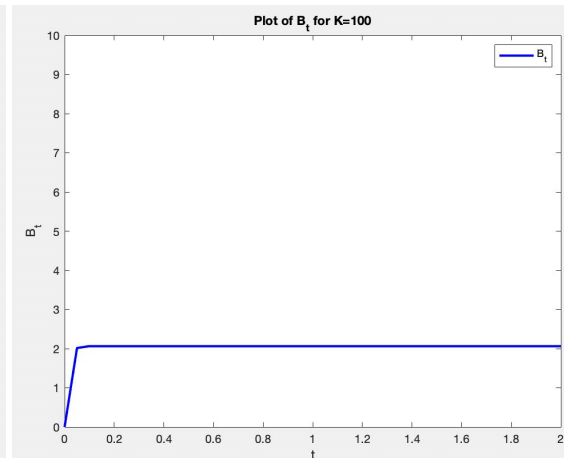
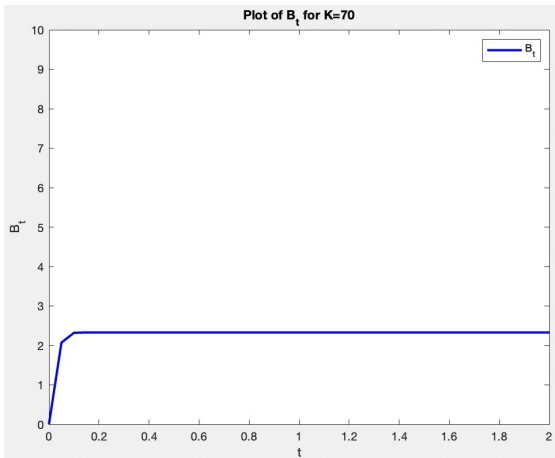
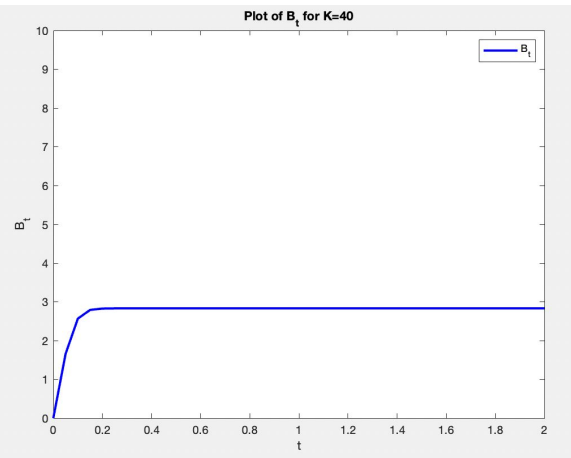
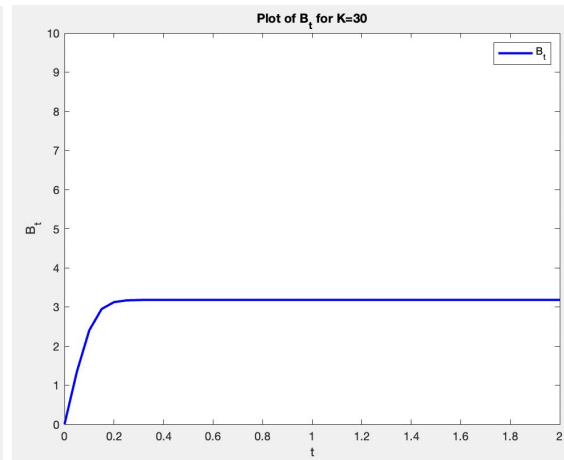
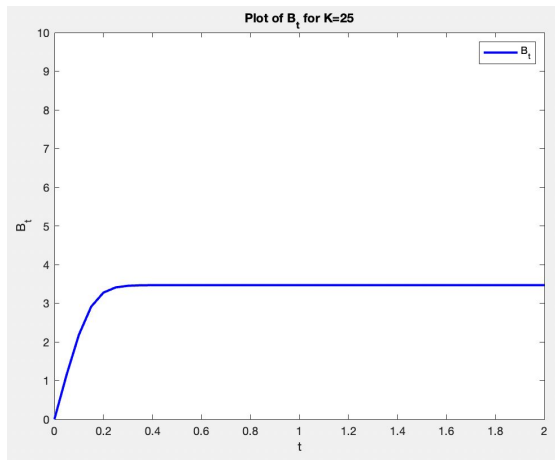
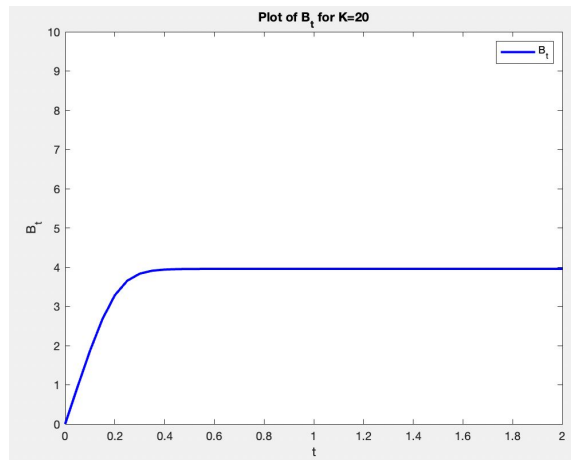
Cutoff Time with Differernt K

K	1	2	5	10	15	20	25	30	40	70	100
tau_k	0	0	0	0	0.00001	0.00002	0.00003	0.00004	0.00006	0.00010	0.00014
tau_l	0.20323	0.09393	0.02653	0.00885	0.00511	0.00404	0.00356	0.00328	0.00295	0.00250	0.00228

Graph of B_t : $K=1,2,5,10$



Graph of B_t : $K=20,25,30,40,70,100$



Graph Welfare

- $K=1, 2, 5, 10, 15, 20, 25, 30, 40, 70, 100$

