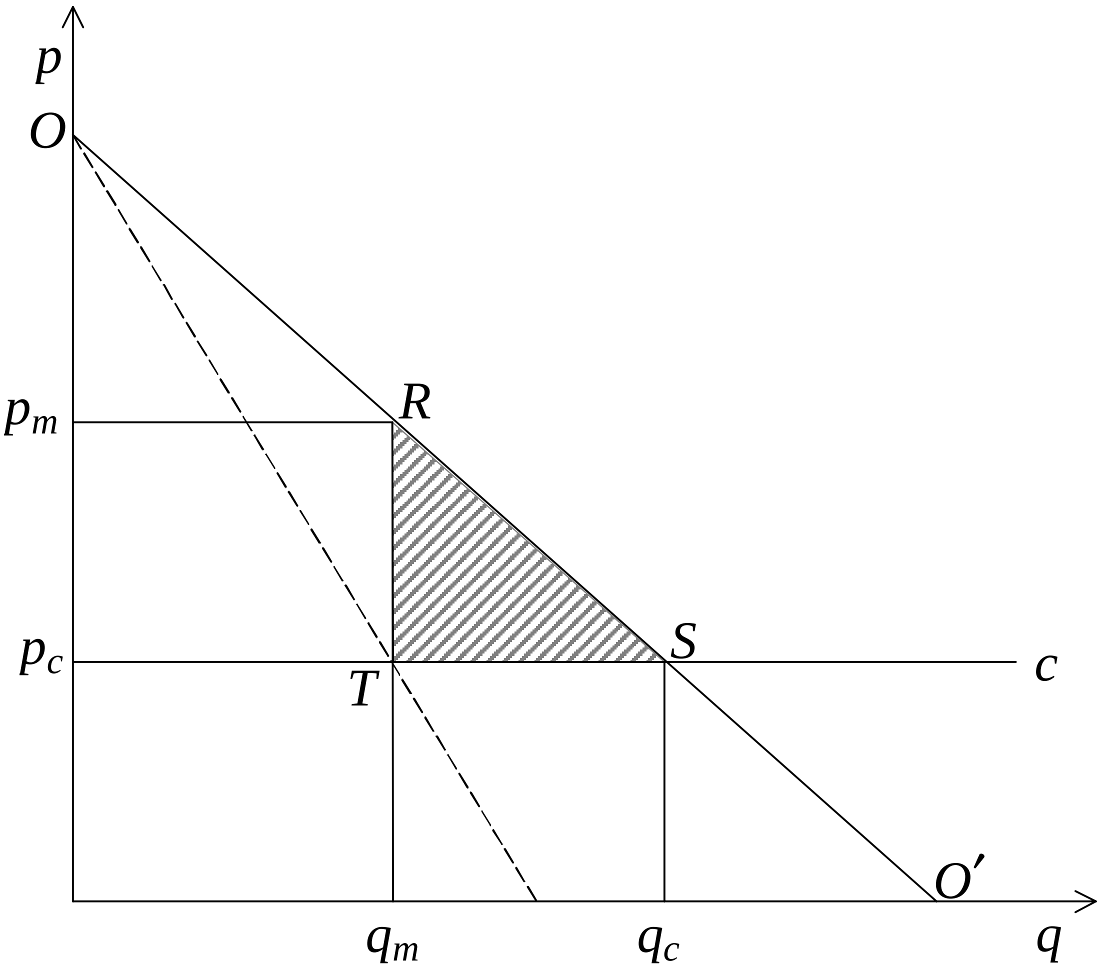
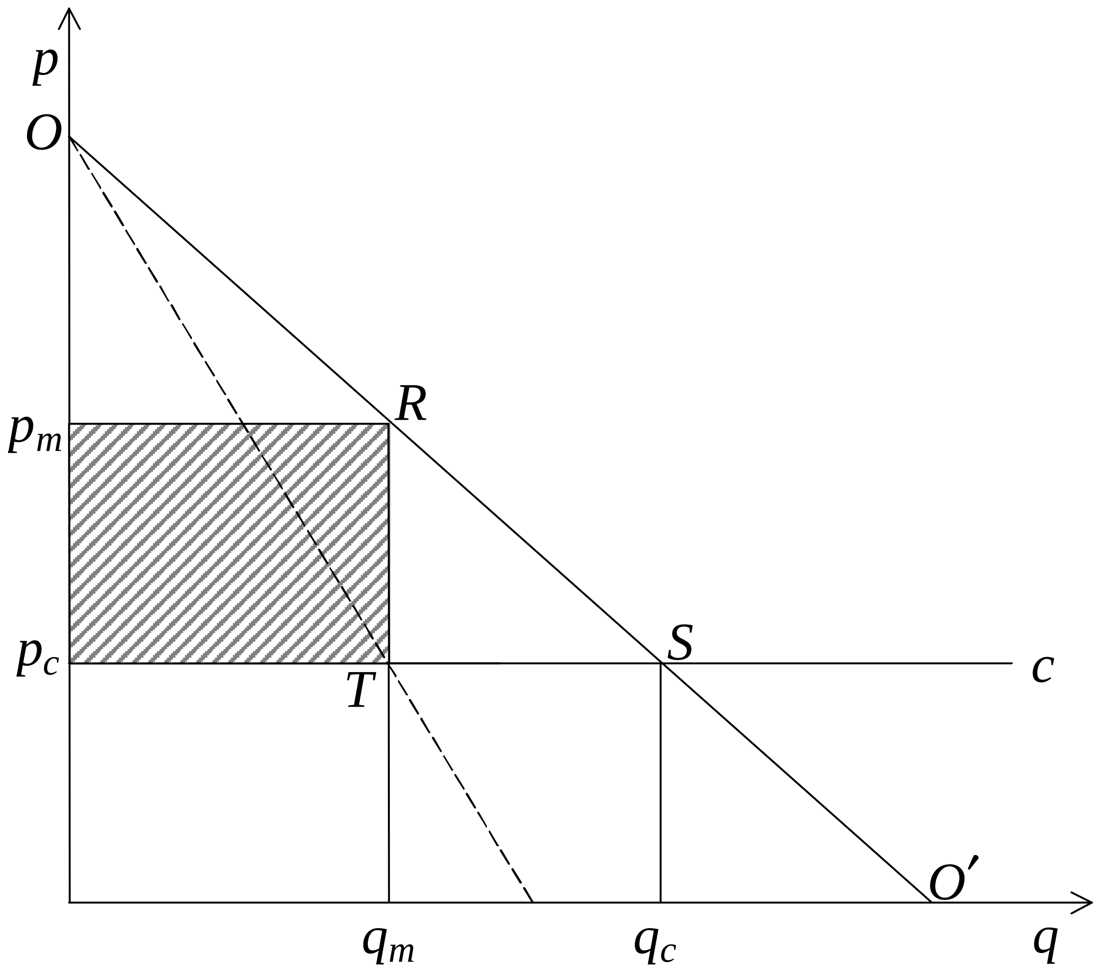
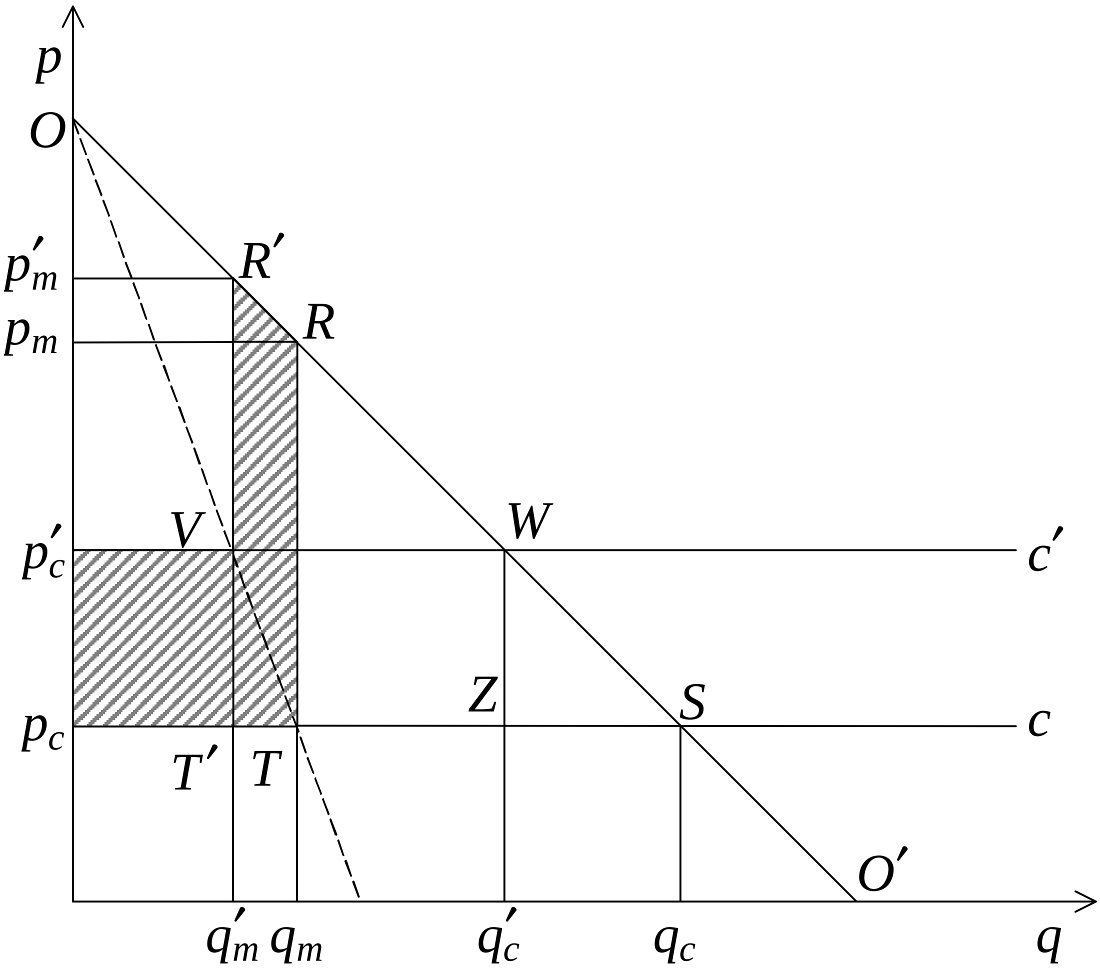
Index of Figures

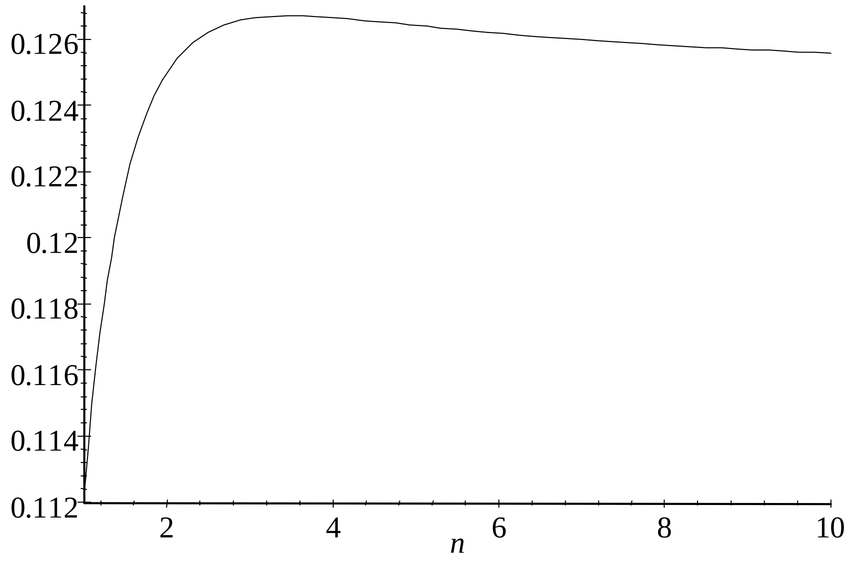

p
O
p_m
R
p_c
S
c
T
O′
q_m
q_c
q

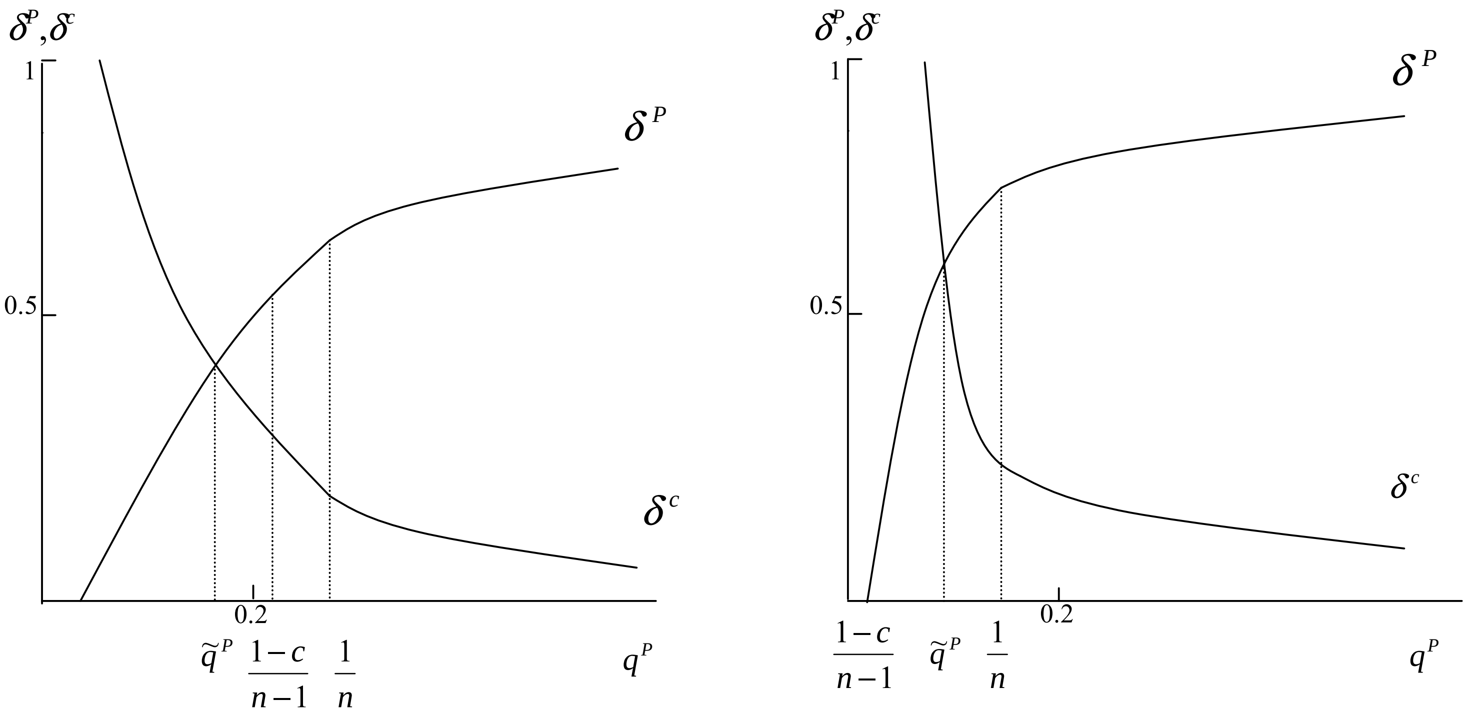


p
O
R
p_m
S
p_c
c
T
O′
q_m
q_c
q



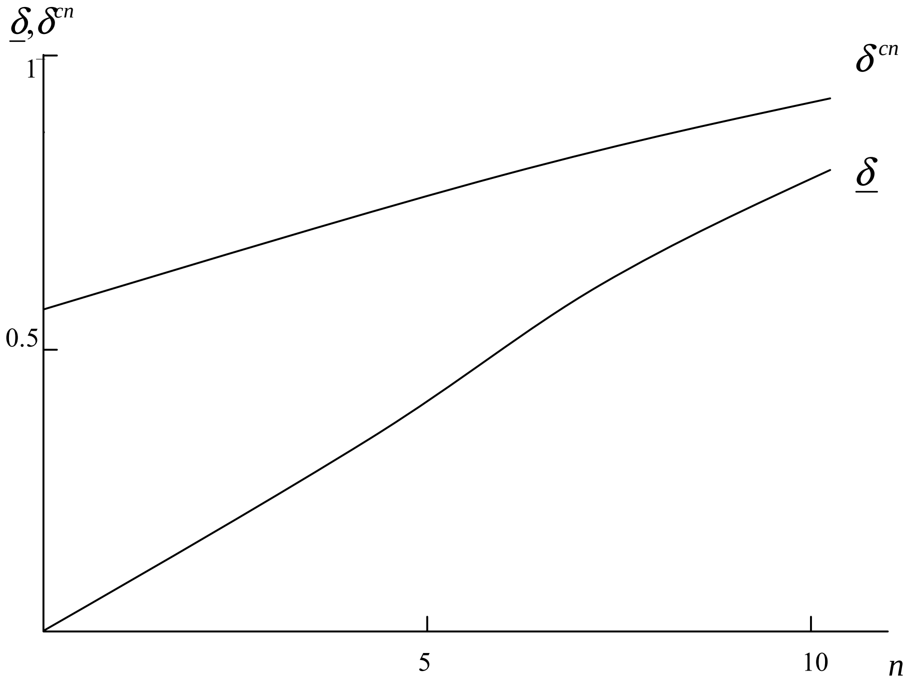
p
O
R′
R
p′m
pm
V
W
p′c
c′
Z
S
pc
c
T′
T
O′
q′m
qm
q′c
qc
q


0.126
0.124
0.122
0.12
0.118
0.116
0.114
0.112
2
4
6
8
10
n

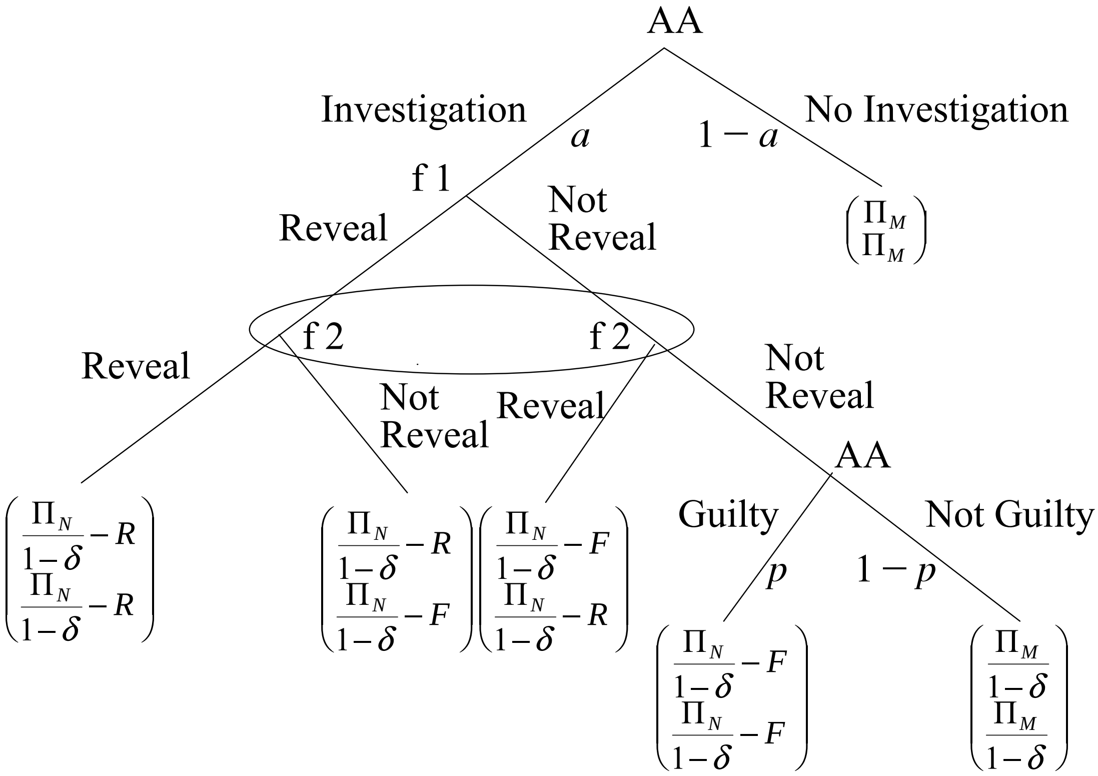


δ^P, δ^c
1
0.5
0.2
δ^P
δ^c
$\tilde{q}^P$
$\frac{1-c}{n-1}$
$\frac{1}{n}$
q^P

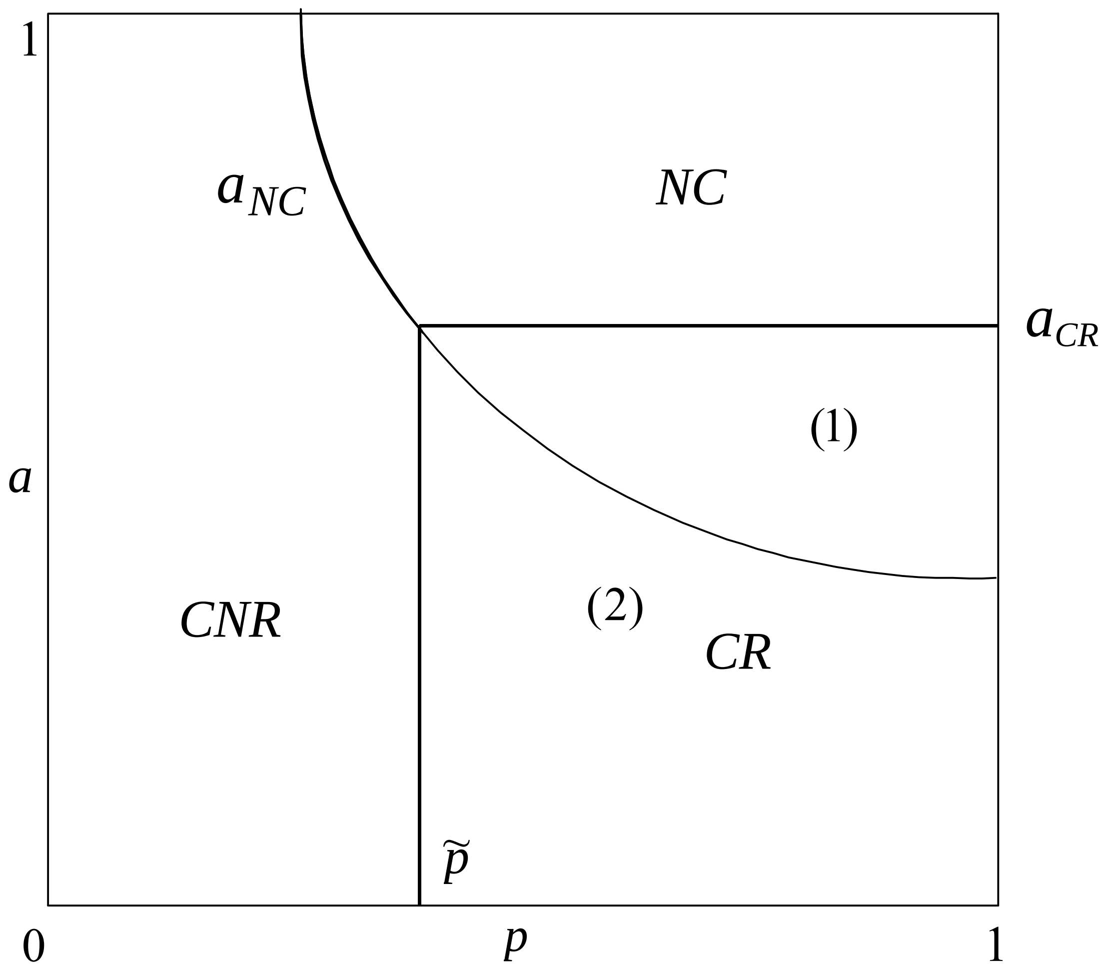
(a) (b)



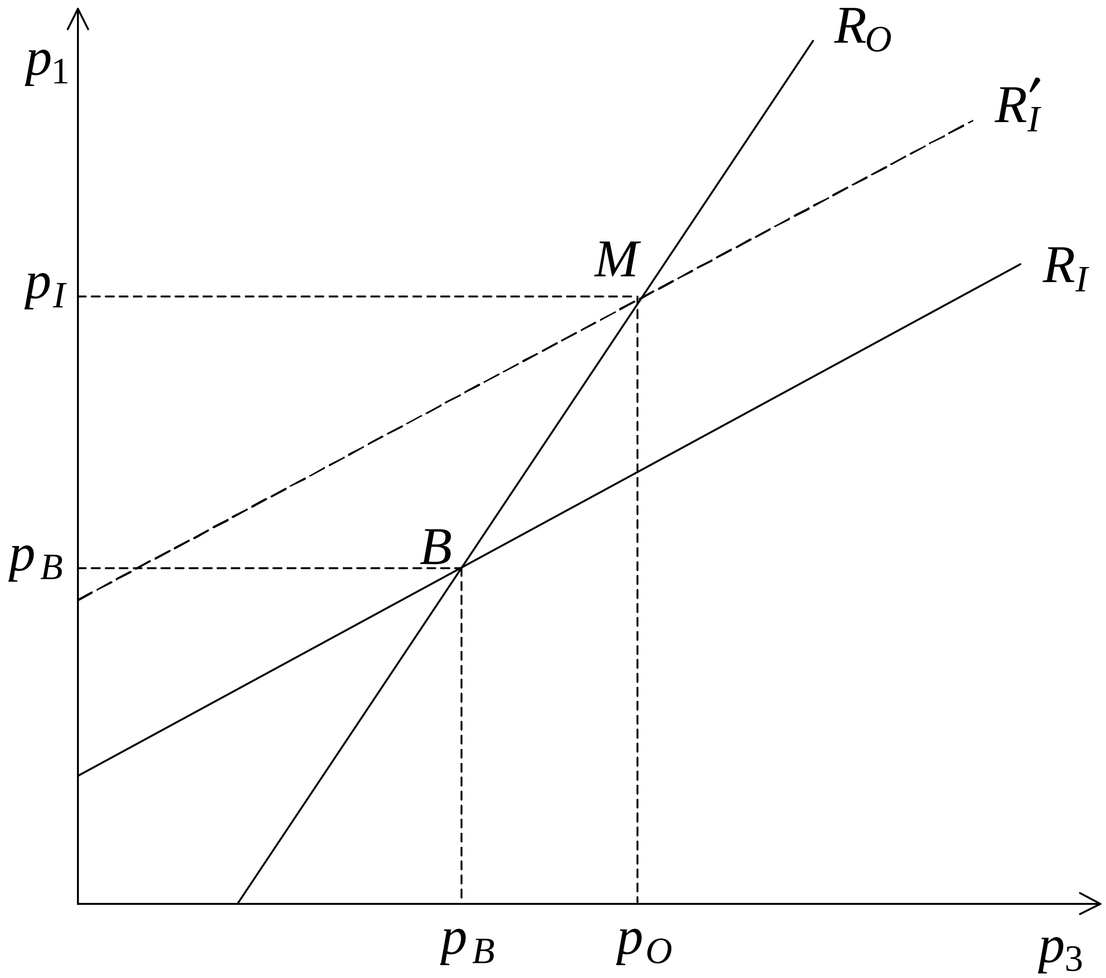
$\underline{\delta}, \delta^{cn}$
1
0.5
5
10
n
δ^{cn}
$\underline{\delta}$



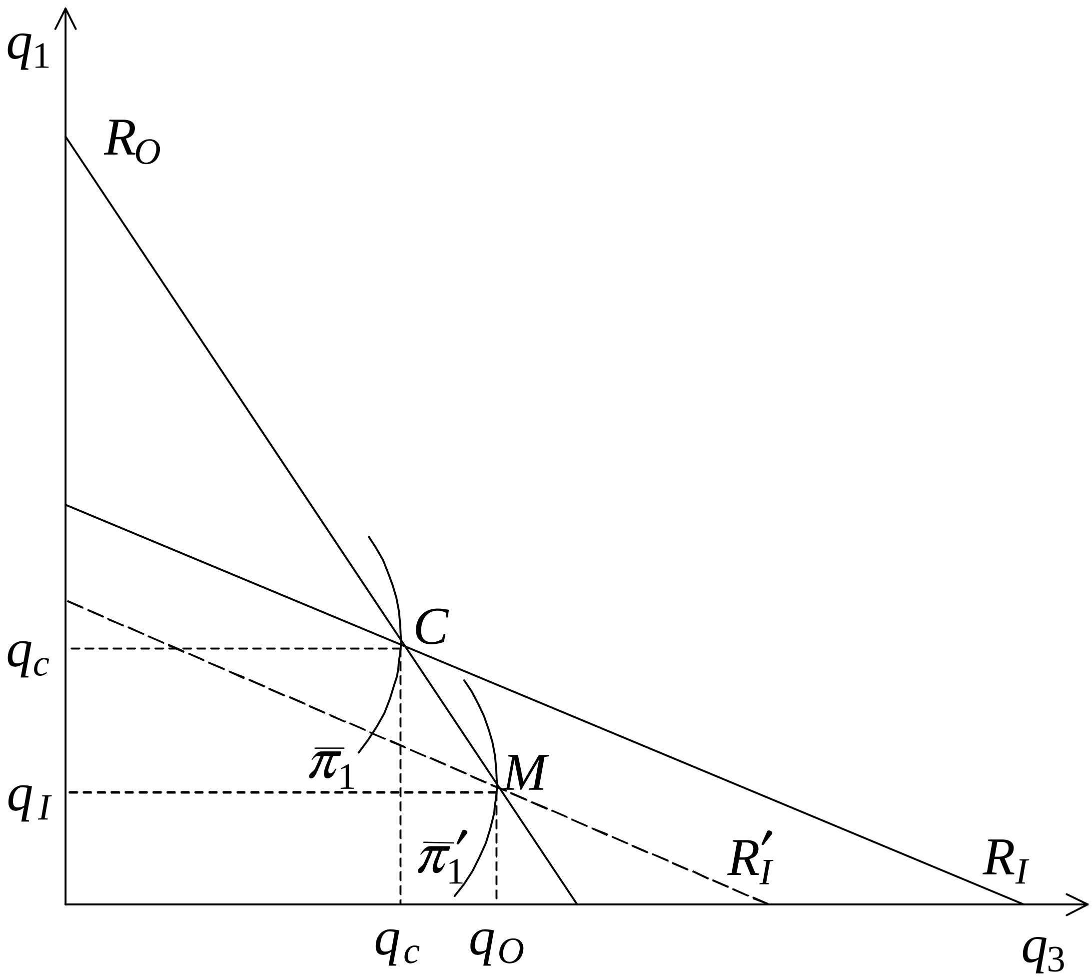
AA
Investigation
a
$1-a$
No Investigation
f 1
Reveal
Not Reveal
$\begin{pmatrix}\Pi_M \\ \Pi_M\end{pmatrix}$
f 2
f 2
Reveal
Not Reveal
Reveal
Not Reveal
AA
Guilty
Not Guilty
p
$1-p$
$\begin{pmatrix}\frac{\Pi_N}{1-\delta}-R \\ \frac{\Pi_N}{1-\delta}-R\end{pmatrix}$
$\begin{pmatrix}\frac{\Pi_N}{1-\delta}-R \\ \frac{\Pi_N}{1-\delta}-F\end{pmatrix}$
$\begin{pmatrix}\frac{\Pi_N}{1-\delta}-F \\ \frac{\Pi_N}{1-\delta}-R\end{pmatrix}$
$\begin{pmatrix}\frac{\Pi_N}{1-\delta}-F \\ \frac{\Pi_N}{1-\delta}-F\end{pmatrix}$
$\begin{pmatrix}\frac{\Pi_M}{1-\delta} \\ \frac{\Pi_M}{1-\delta}\end{pmatrix}$



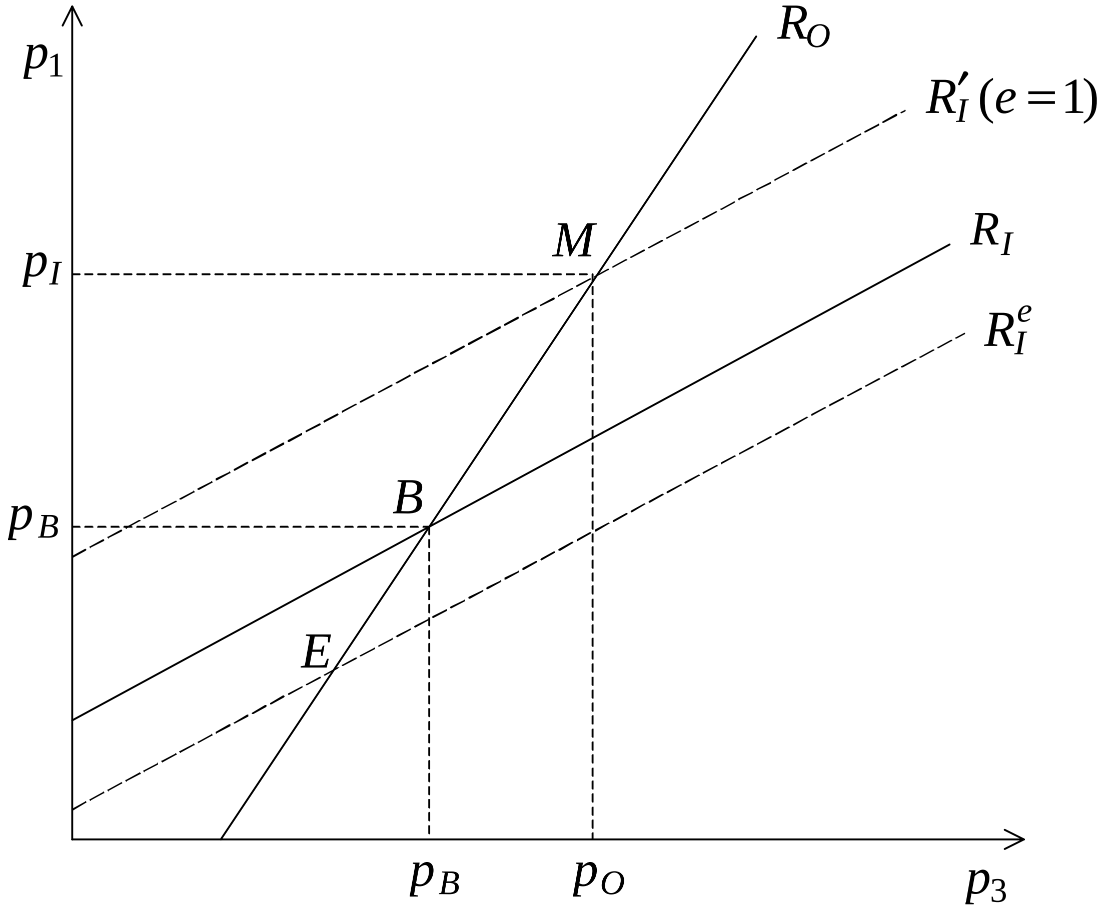
1
a_{NC}
NC
a_{CR}
(1)
a
(2)
CNR
CR
$\widetilde{p}$
0
p
1



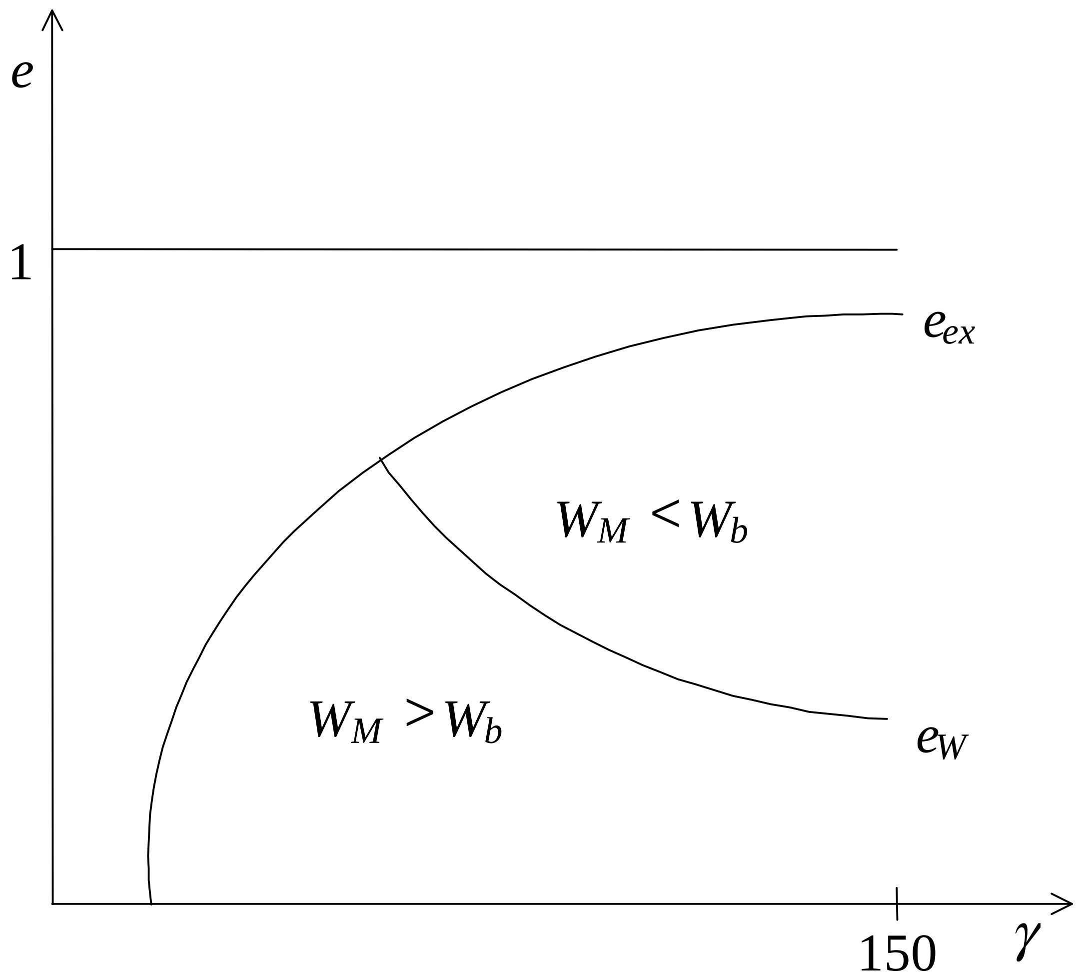
p_1
R_O
R_I'
M
R_I
p_I
B
p_B
p_B
p_O
p_3



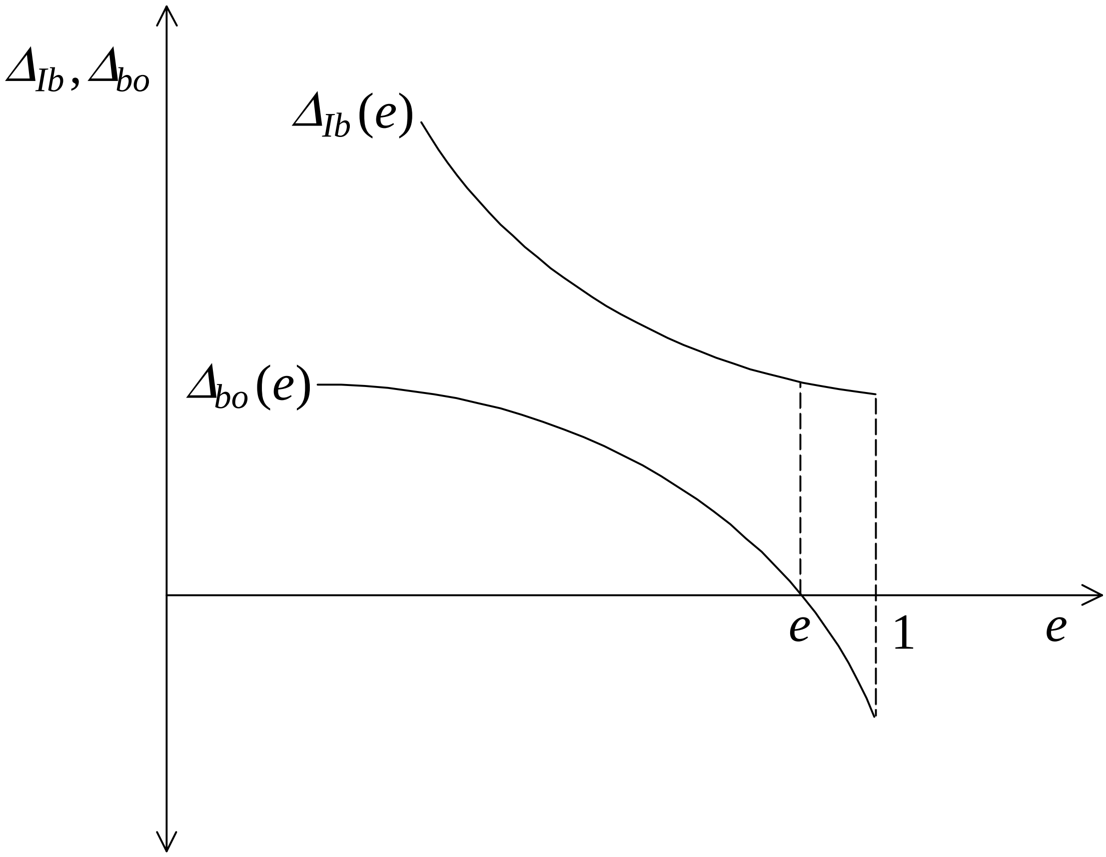
q_1
R_O
C
q_c
$\bar{\pi}_1$
M
q_I
$\bar{\pi}_1'$
R_I'
R_I
q_c
q_O
q_3



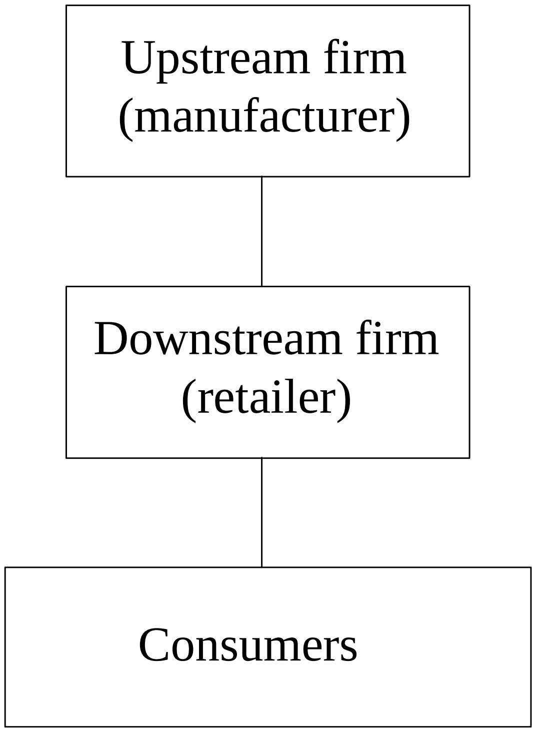
p_1
R_O
$R_I'(e=1)$
M
p_I
R_I
R_I^e
p_B
B
E
p_B
p_O
p_3

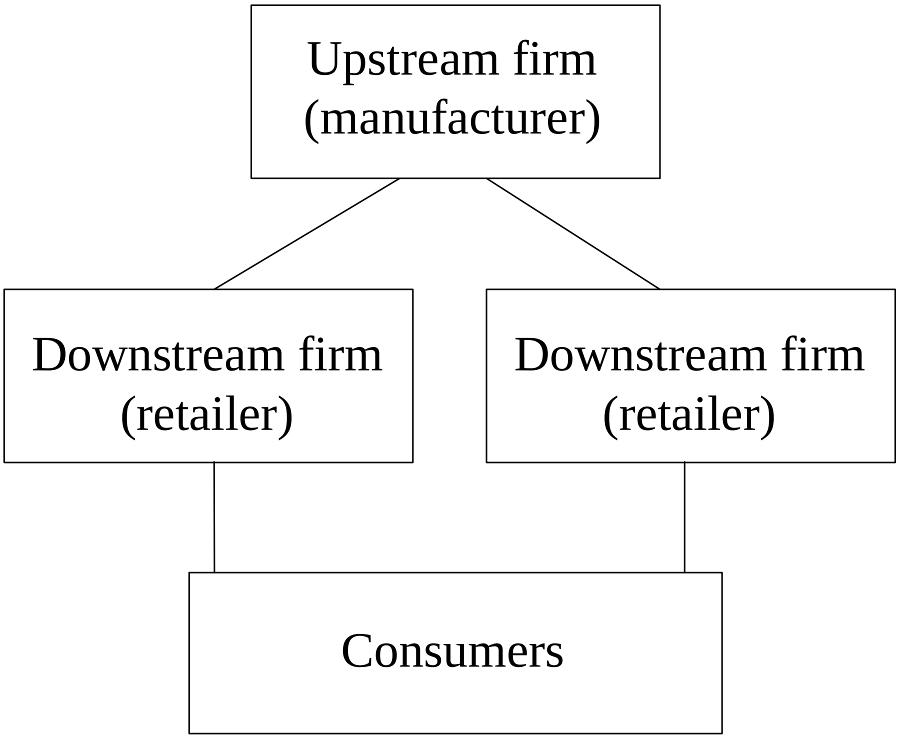


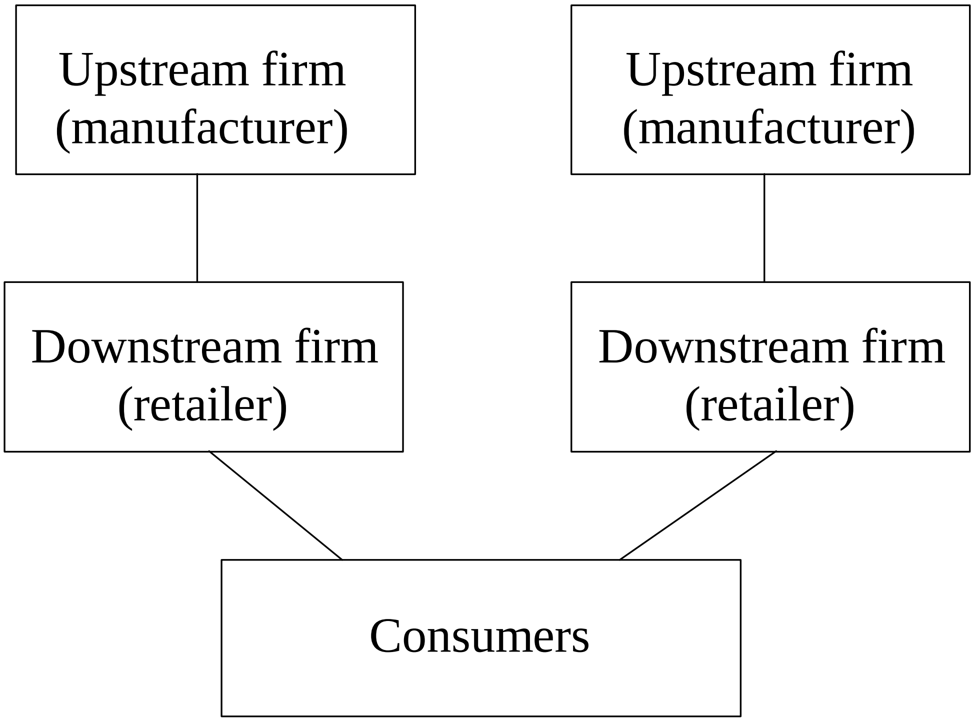
e
1
e_{ex}
$W_M < W_b$
$W_M > W_b$
e_W
150
γ

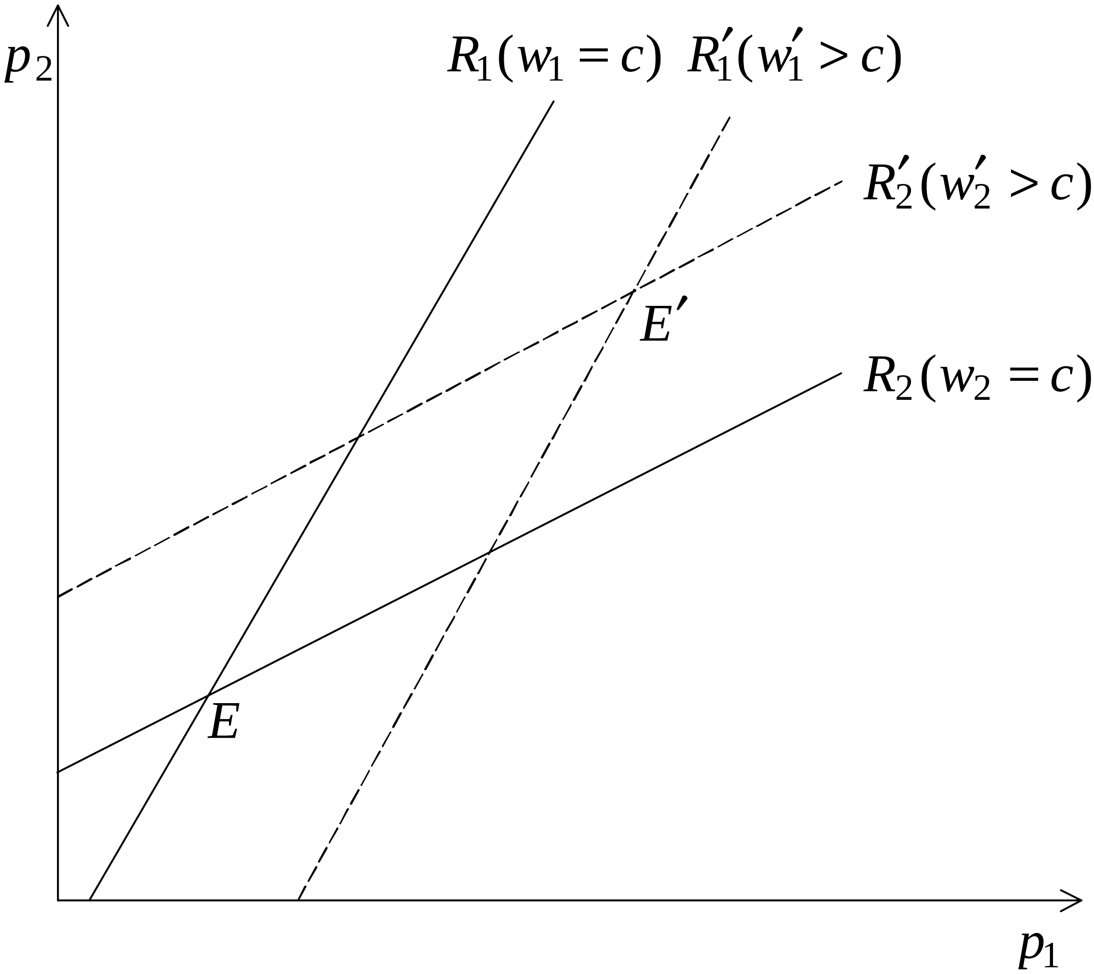


Δ_{Ib}, Δ_{bo}
$\Delta_{Ib}(e)$
$\Delta_{bo}(e)$
e
1
e

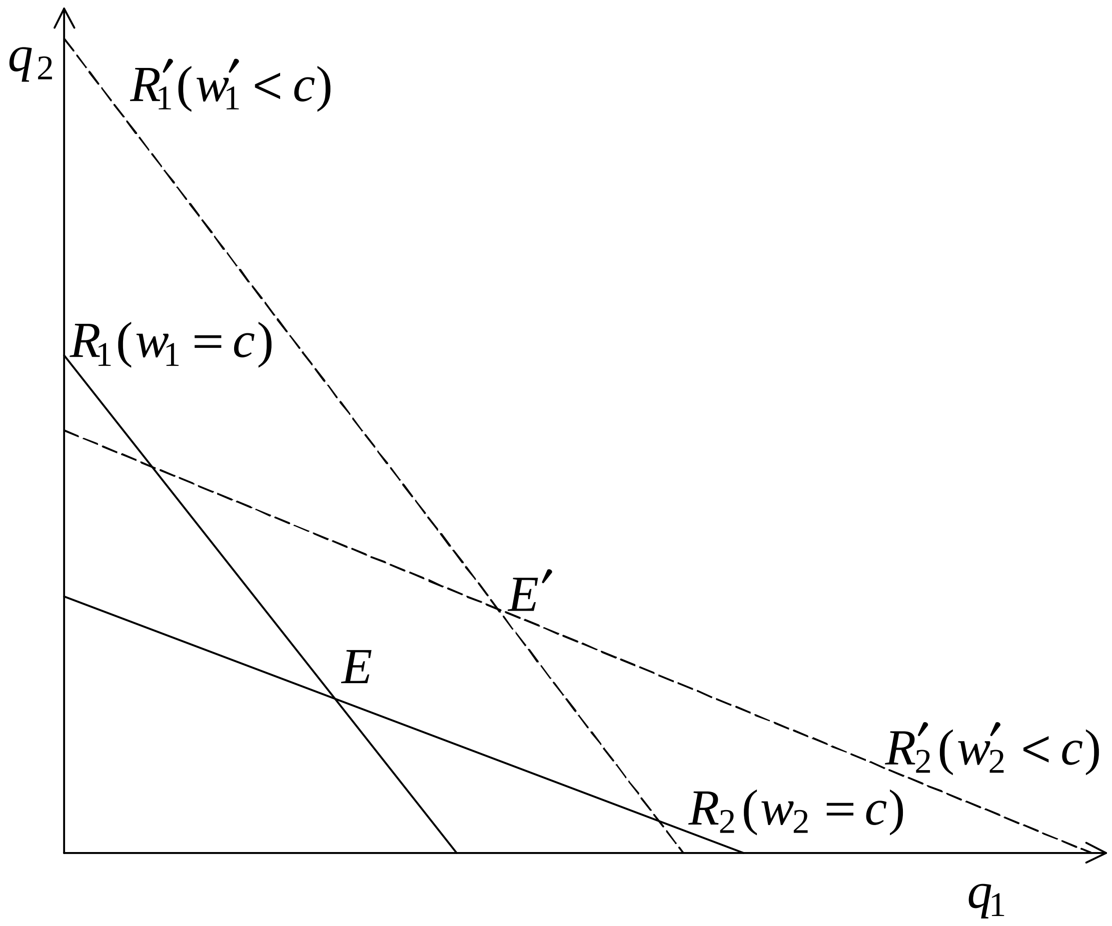

Upstream firm
(manufacturer)
Downstream firm
(retailer)
Consumers


Upstream firm
(manufacturer)
Downstream firm
(retailer)
Downstream firm
(retailer)
Consumers

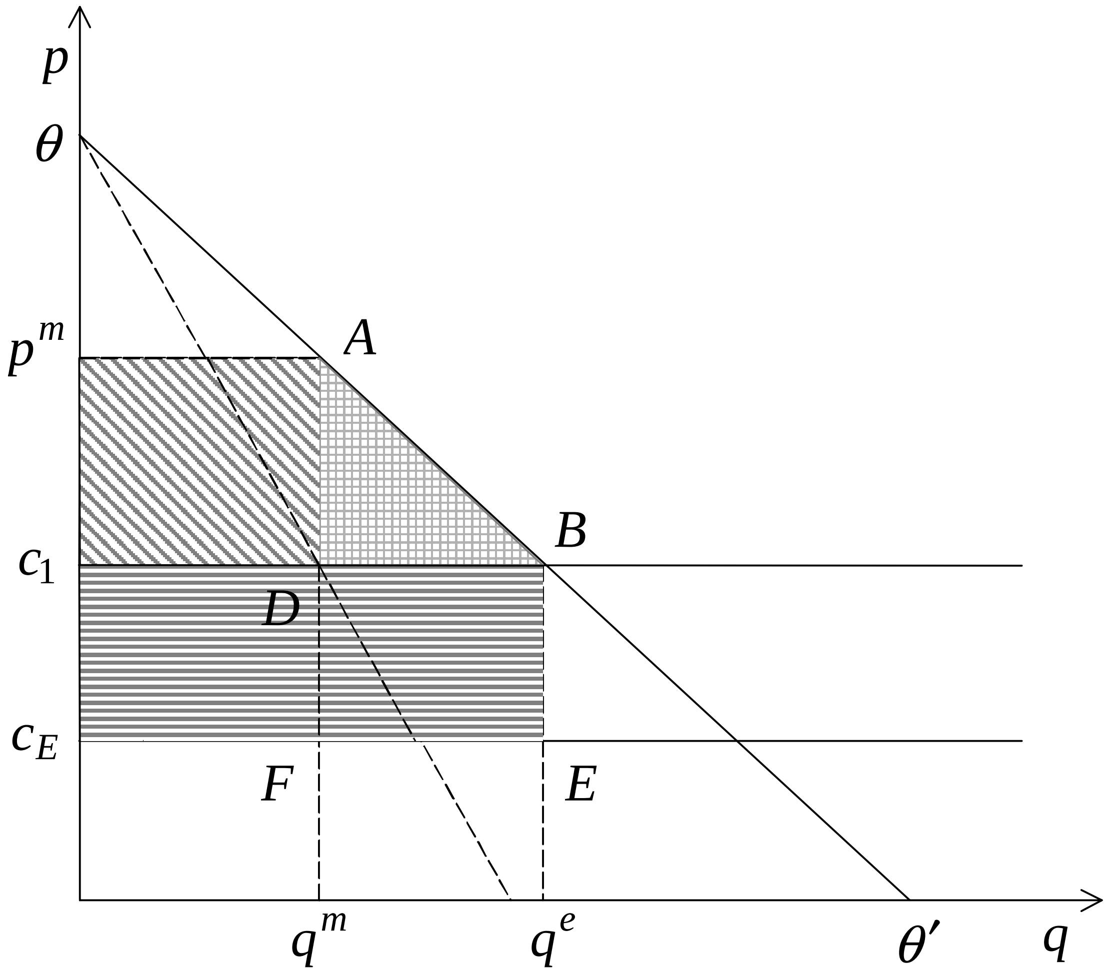

Upstream firm (manufacturer)
Upstream firm (manufacturer)
Downstream firm (retailer)
Downstream firm (retailer)
Consumers



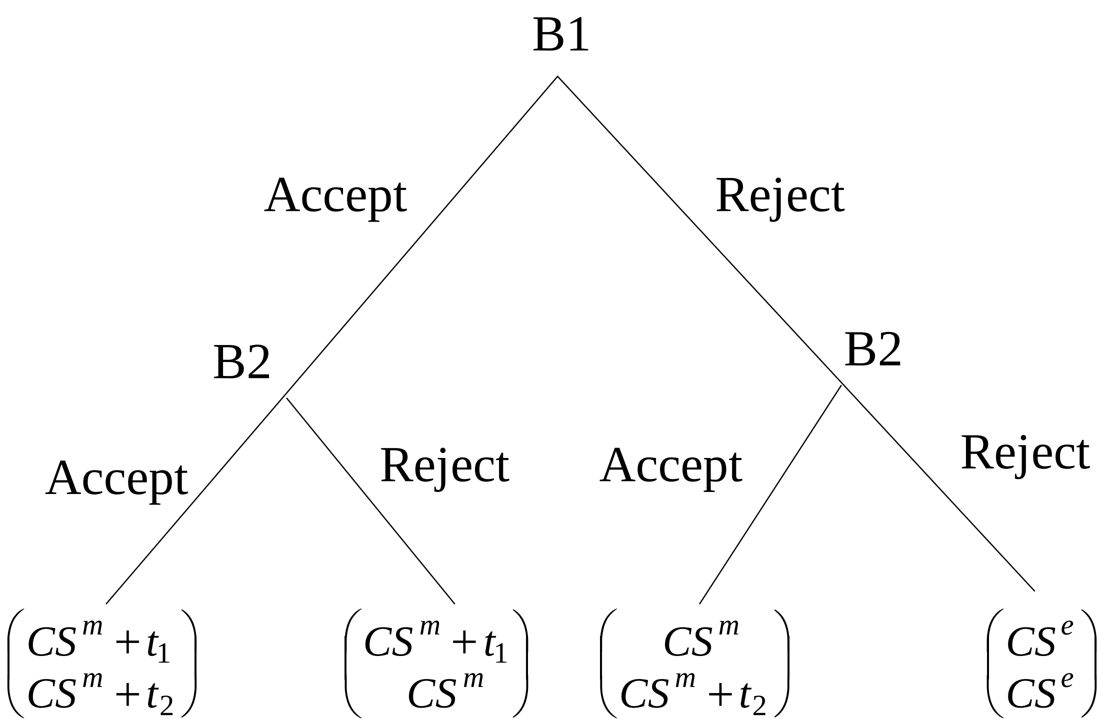
p_2
$R_1(w_1 = c)$
$R_1'(w_1' > c)$
$R_2'(w_2' > c)$
E'
$R_2(w_2 = c)$
E
p_1

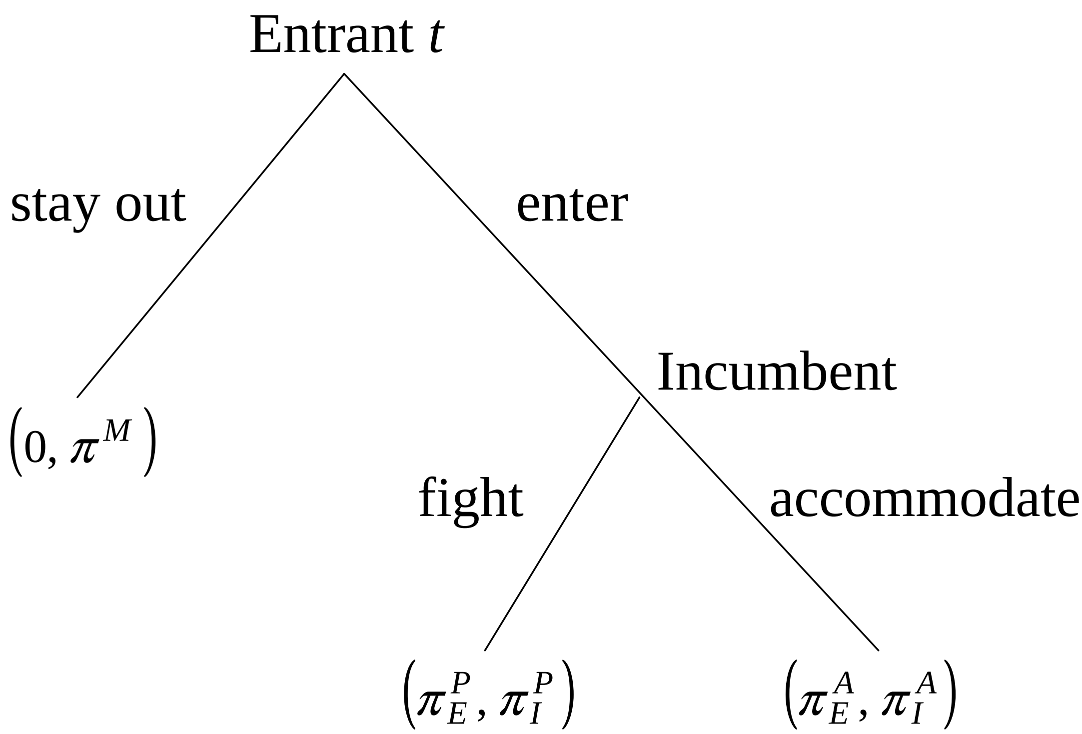


q_2
$R_1'(w_1' < c)$
$R_1(w_1 = c)$
E'
E
$R_2'(w_2' < c)$
$R_2(w_2 = c)$
q_1

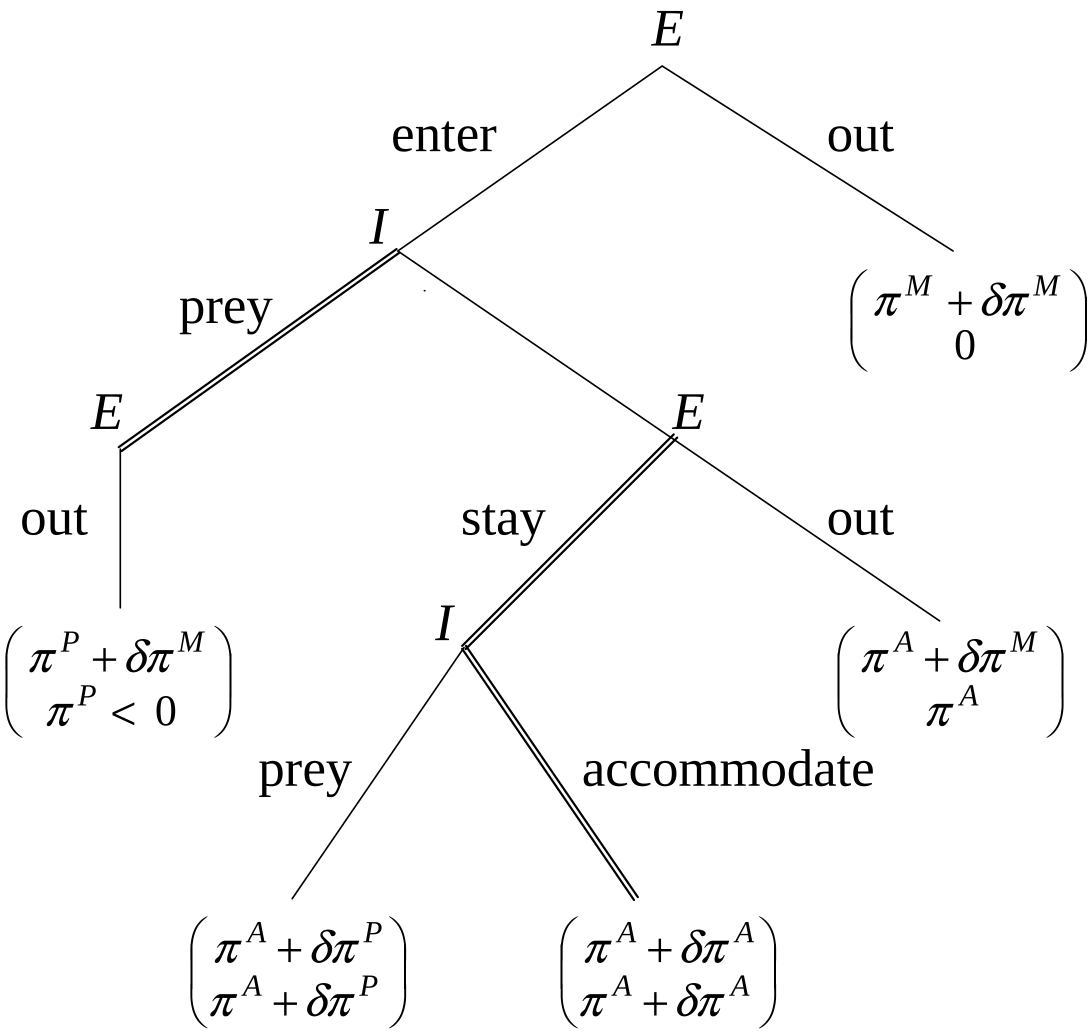


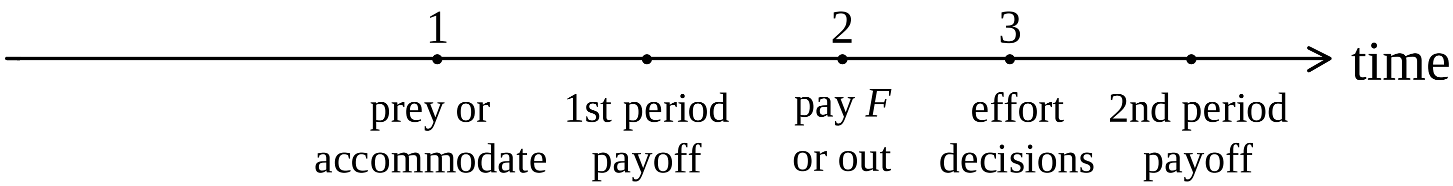
p
θ
A
p^m
B
c_1
D
c_E
F
E
q^m
q^e
θ′
q

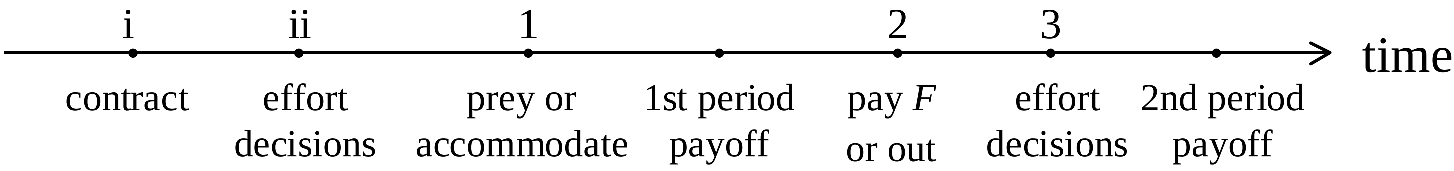

B1
Accept
Reject
B2
B2
Accept
Reject
Accept
Reject
$\begin{pmatrix} CS^m + t_1 \\ CS^m + t_2 \end{pmatrix}$
$\begin{pmatrix} CS^m + t_1 \\ CS^m \end{pmatrix}$
$\begin{pmatrix} CS^m \\ CS^m + t_2 \end{pmatrix}$
$\begin{pmatrix} CS^e \\ CS^e \end{pmatrix}$

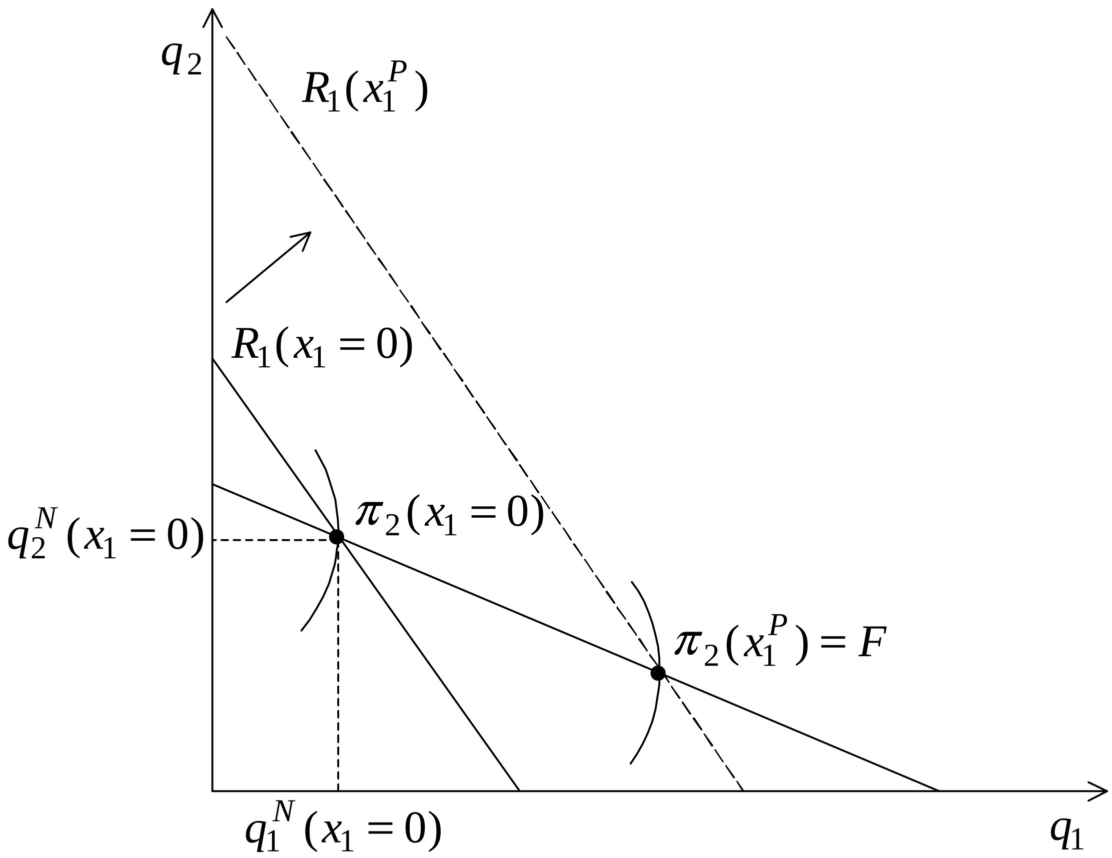


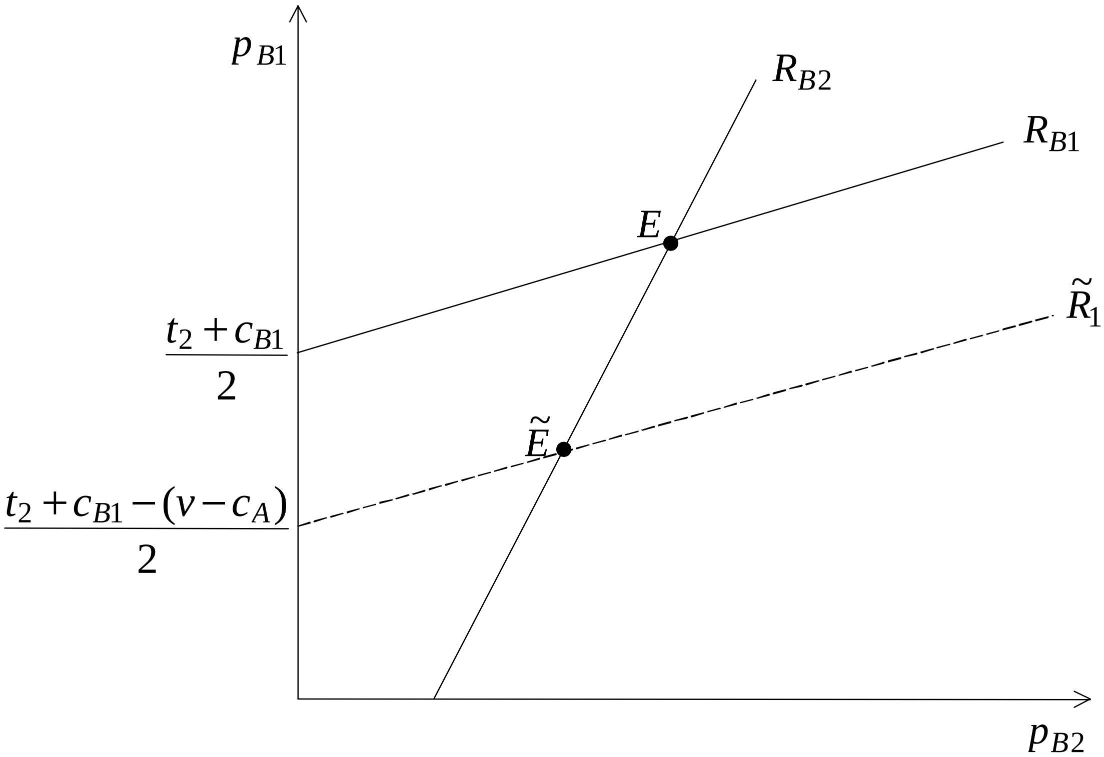
Entrant t
stay out
enter
Incumbent
$(0, \pi^M)$
fight
accommodate
(π_E^P, π_I^P)
(π_E^A, π_I^A)


E
enter
out
I
prey
$\begin{pmatrix} \pi^M + \delta\pi^M \\ 0 \end{pmatrix}$
E
E
out
stay
out
I
$\begin{pmatrix} \pi^P + \delta\pi^M \\ \pi^P < 0 \end{pmatrix}$
$\begin{pmatrix} \pi^A + \delta\pi^M \\ \pi^A \end{pmatrix}$
prey
accommodate
$\begin{pmatrix} \pi^A + \delta\pi^P \\ \pi^A + \delta\pi^P \end{pmatrix}$
$\begin{pmatrix} \pi^A + \delta\pi^A \\ \pi^A + \delta\pi^A \end{pmatrix}$

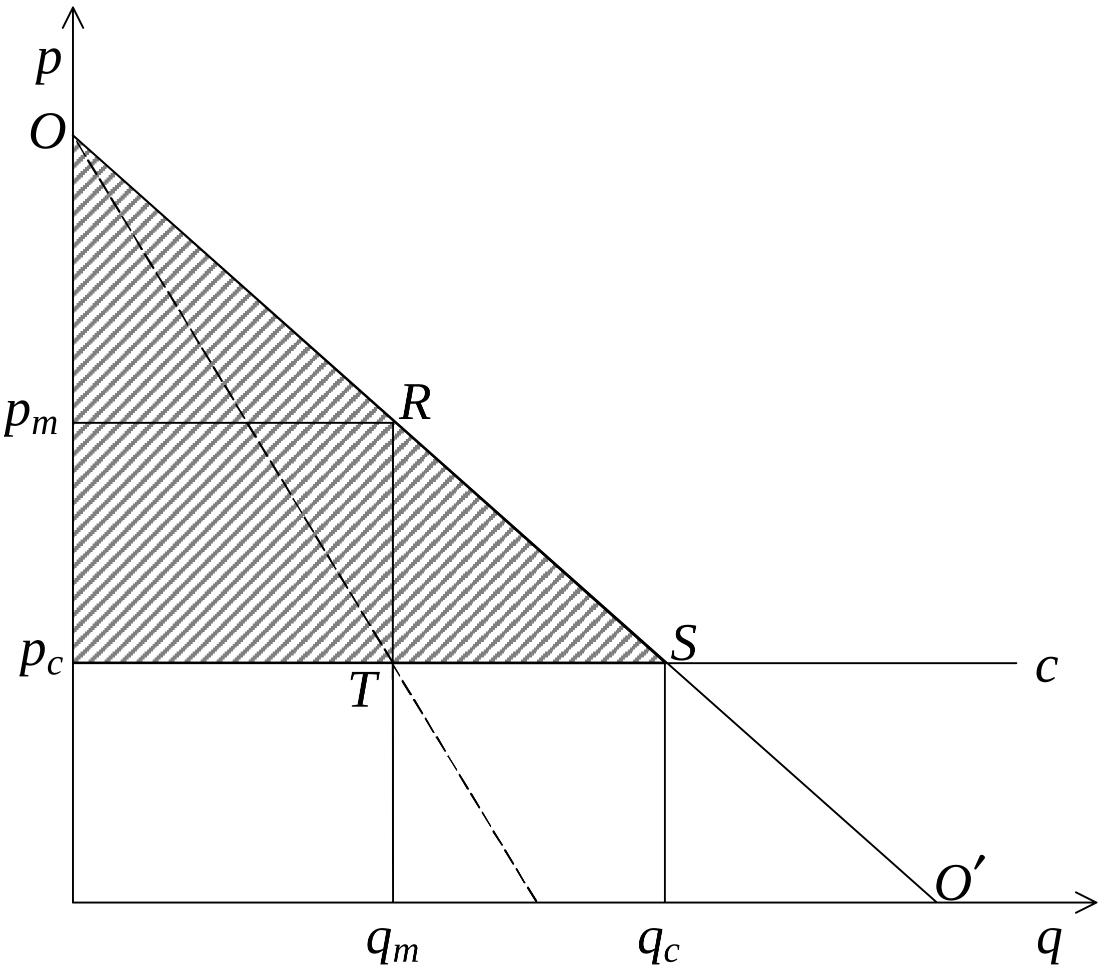

1
2
3
time
prey or accommodate
1st period payoff
pay F or out
effort decisions
2nd period payoff


i
ii
1
2
3
time
contract
effort decisions
prey or accommodate
1st period payoff
pay F or out
effort decisions
2nd period payoff

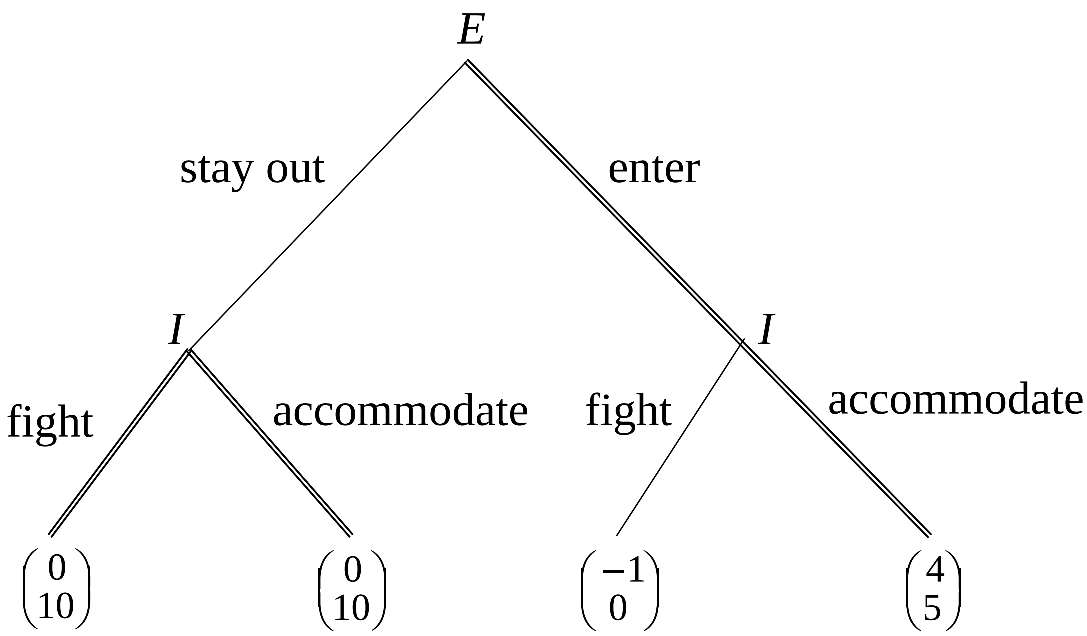

q_2
$R_1(x_1^P)$
$R_1(x_1 = 0)$
$\pi_2(x_1 = 0)$
$q_2^N(x_1 = 0)$
$\pi_2(x_1^P) = F$
$q_1^N(x_1 = 0)$
q_1



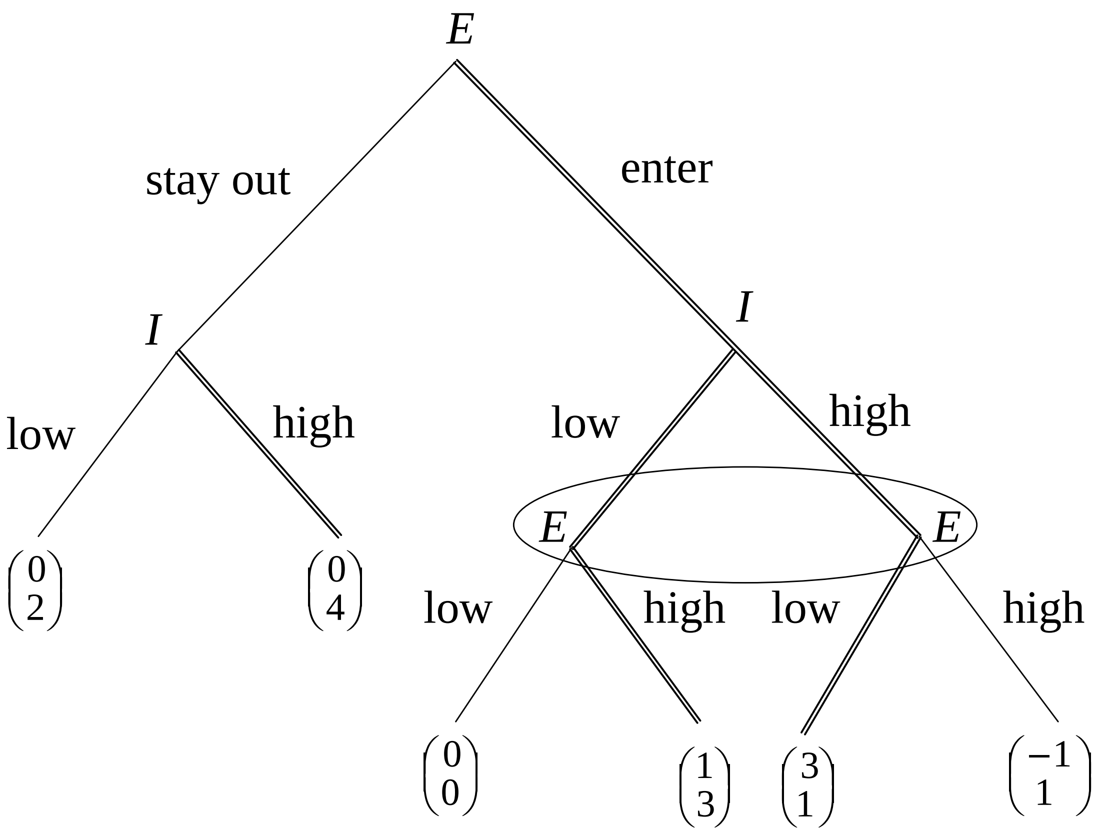
p_{B1}
R_{B2}
R_{B1}
E
$\tilde{R}_1$
$\frac{t_2+c_{B1}}{2}$
$\tilde{E}$
$\frac{t_2+c_{B1}-(v-c_A)}{2}$
p_{B2}

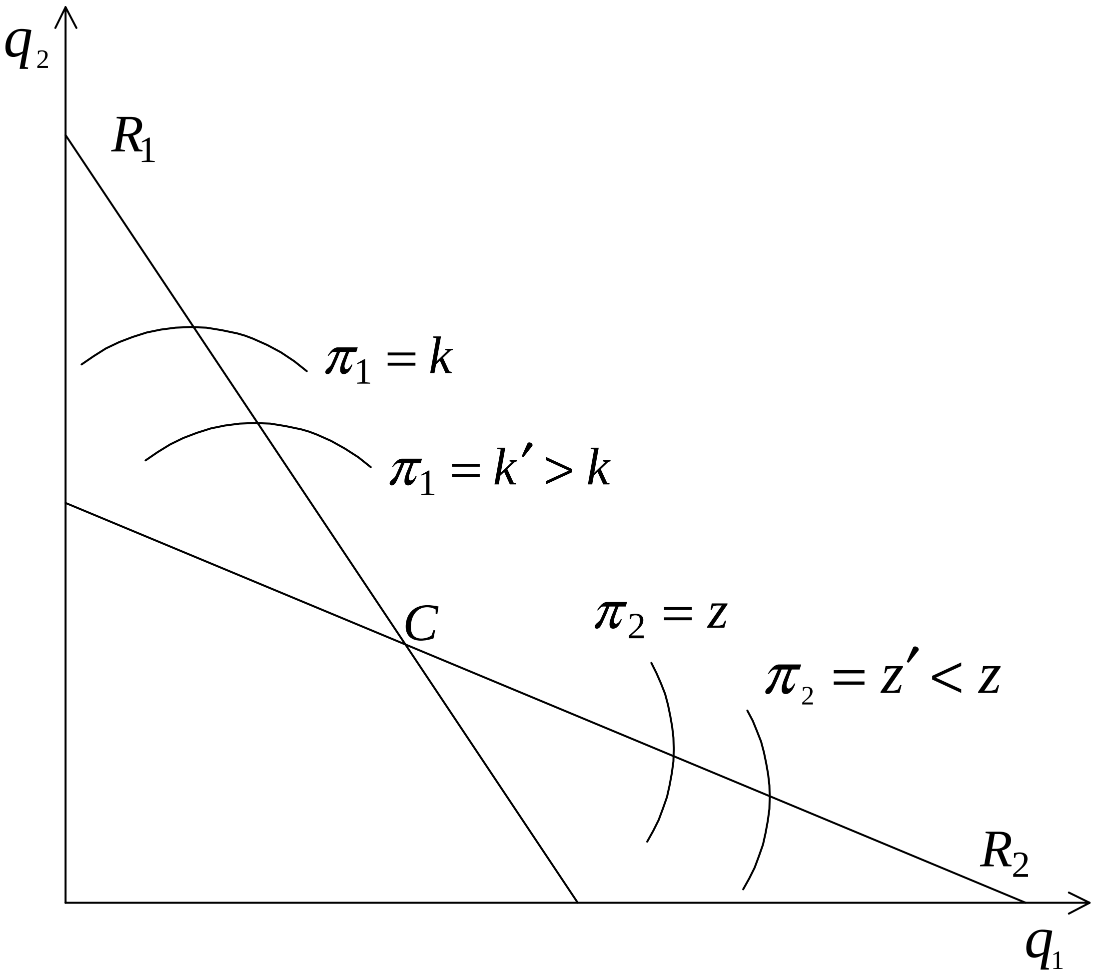


p
O
R
S
T
c
O′
q

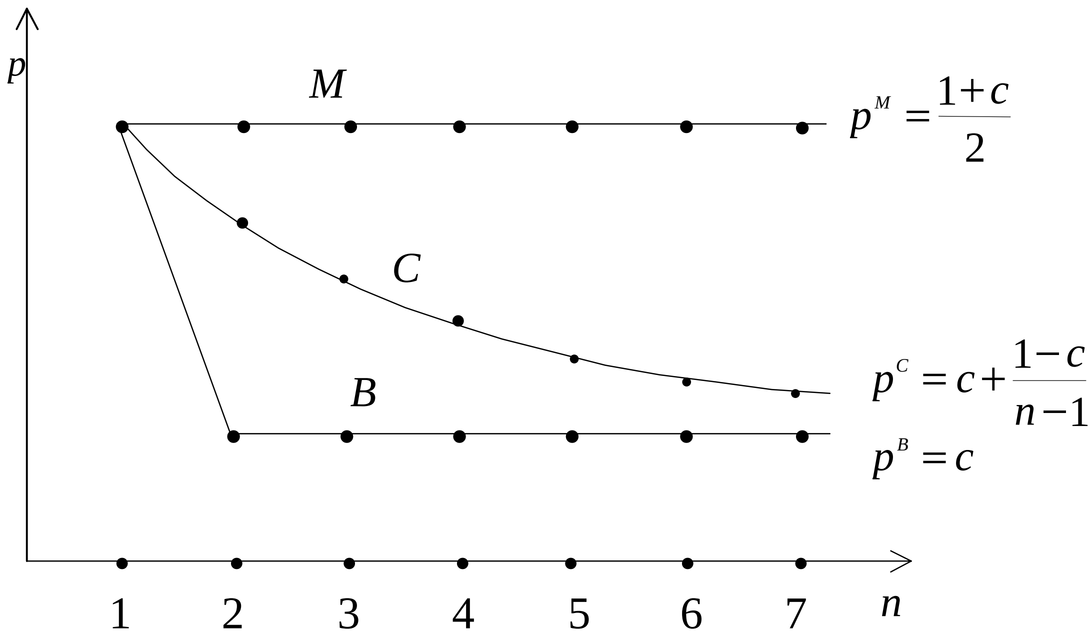


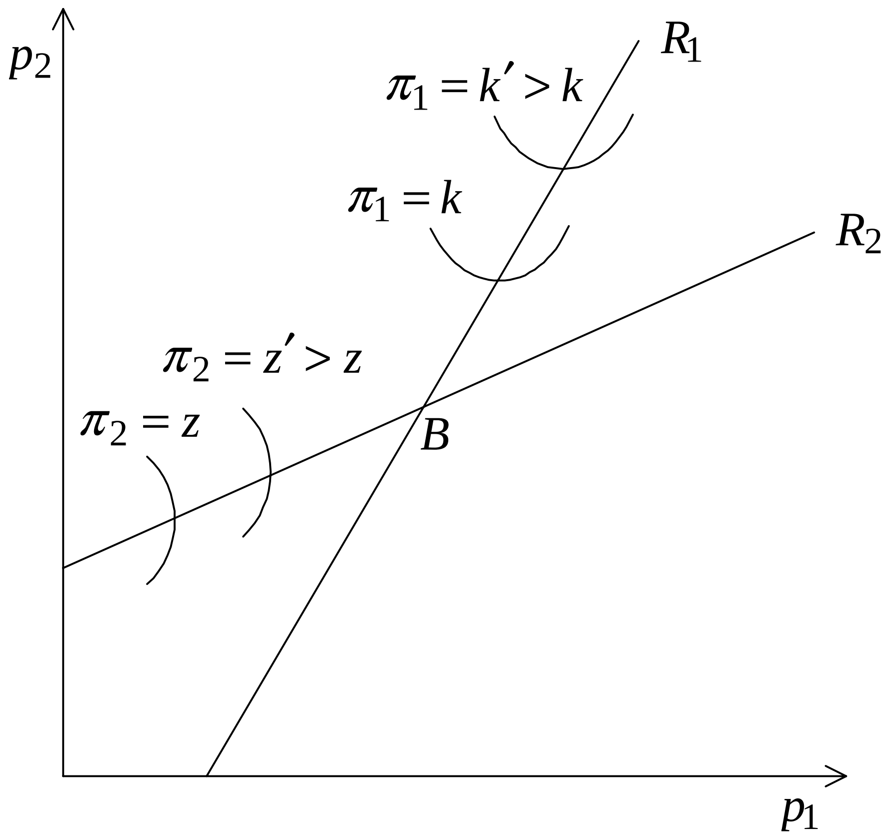
E
stay out
enter
I
I
fight
accommodate
fight
accommodate
0
10
0
10
−1
0
4
5


E
stay out
enter
I
I
low
high
low
high
E
E
(0, 2)
(0, 4)
low
high
low
high
(0, 0)
(1, 3)
(3, 1)
(−1, 1)

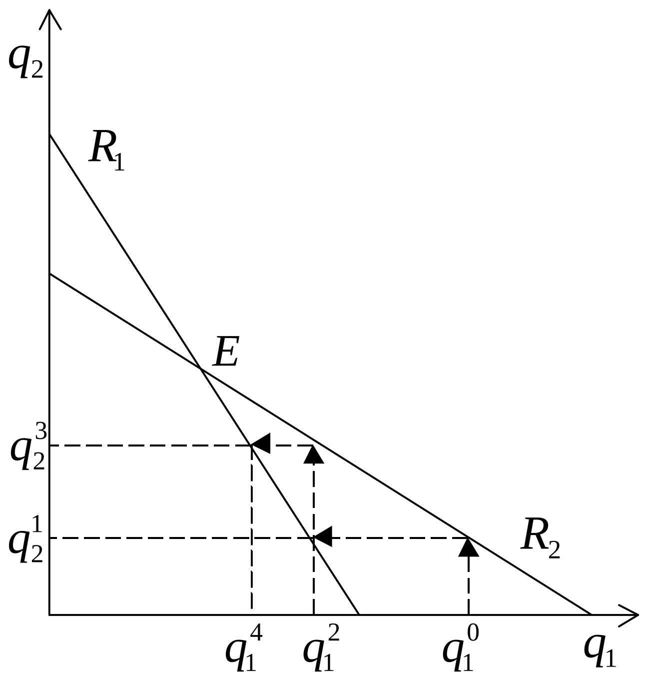


q_2
R_1
$\pi_1 = k$
$\pi_1 = k' > k$
C
$\pi_2 = z$
$\pi_2 = z' < z$
R_2
q_1

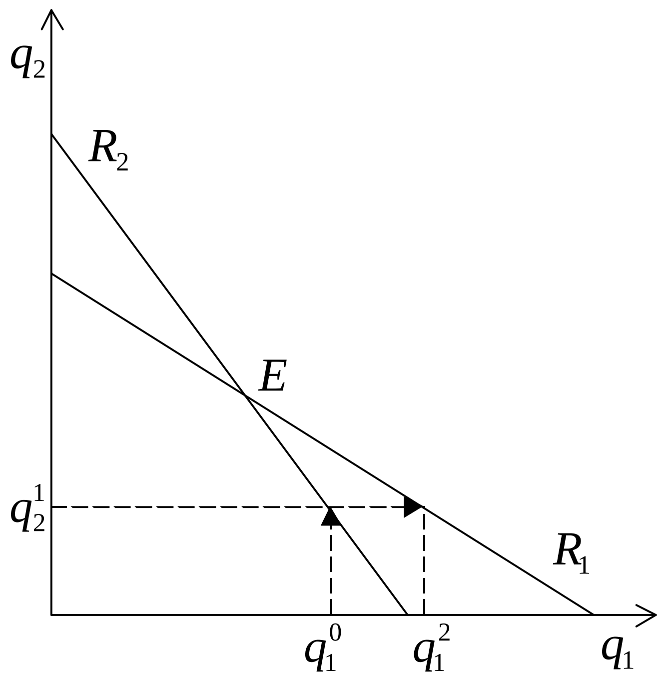

p
M
$p^M = \frac{1+c}{2}$
C
$p^C = c + \frac{1-c}{n-1}$
B
$p^B = c$
1
2
3
4
5
6
7
n



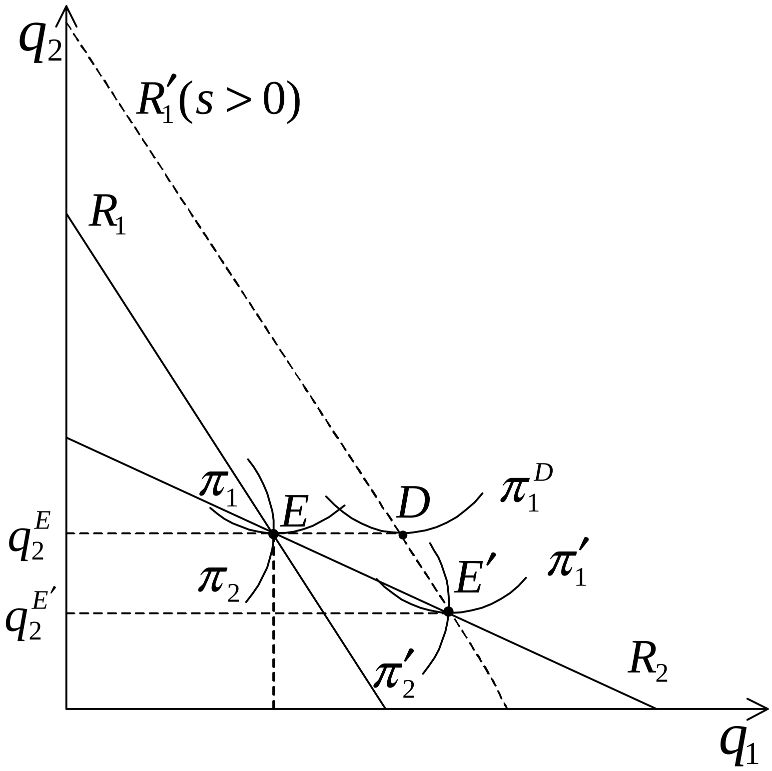
p_2
R_1
$\pi_1 = k' > k$
$\pi_1 = k$
R_2
$\pi_2 = z' > z$
$\pi_2 = z$
B
p_1



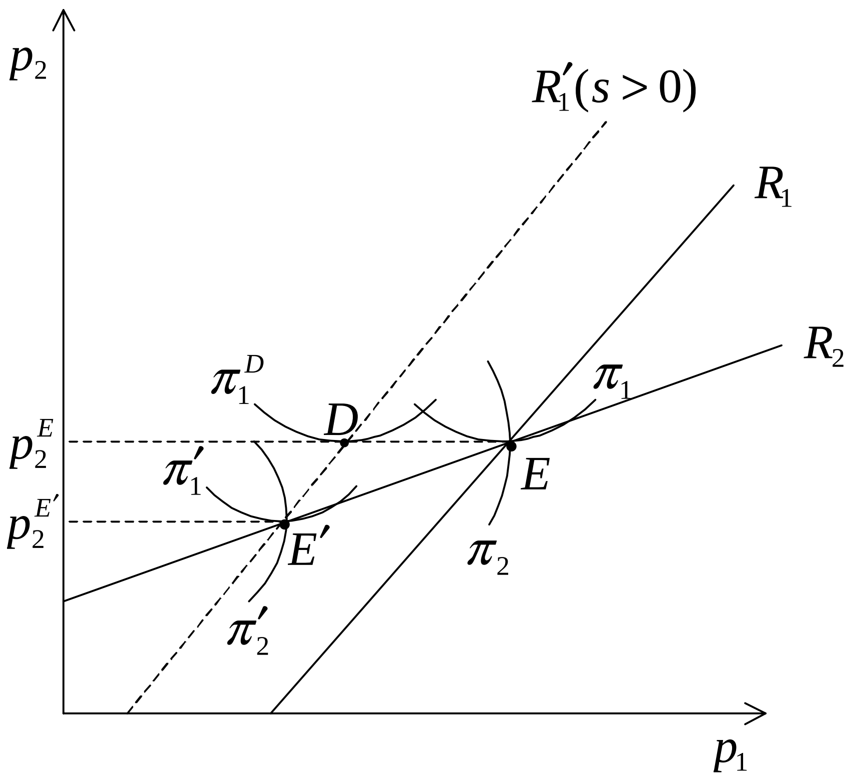
(a)



(b)



q_2
$R_1'(s>0)$
R_1
π_1
E
D
π_1^D
q_2^E
π_2
E'
π_1'
$q_2^{E'}$
R_2
π_2'
q_1



p_2
$R_1'(s>0)$
R_1
R_2
π_1^D
D
π_1
p_2^E
π_1'
E
$p_2^{E'}$
E'
π_2
π_2'
p_1