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2. agricultural research intensity ratio

(Pardey & Beintema)

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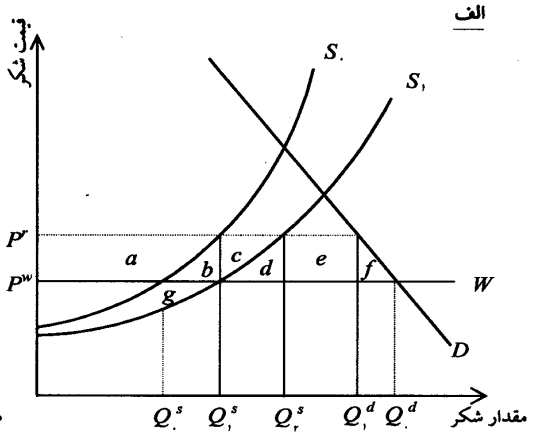
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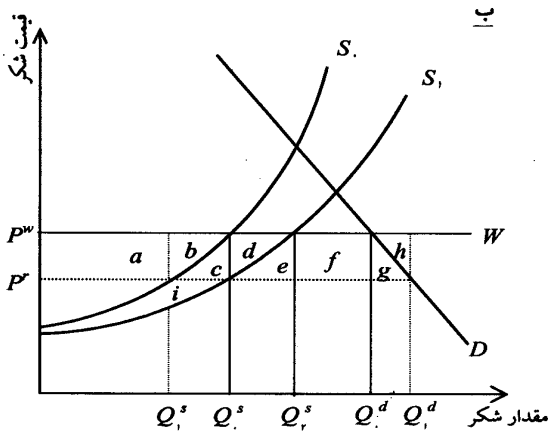
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S_0

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Q_0^s

P_w

Q_0^d

Q_1^s

Q_1^d

$a+b+c+d+e+f$

$c+d+e$

a

b

f

2. fixed proportions model

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$S_1 \quad S_0$

a

$S_1^b \quad S_0^b$
 $(D_1^b \quad D_0^b)$
 $P_{bs}^1 \quad P_{bs}^0$

b+c

) b+c () a

(

g+b+c

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$S_1 \quad S_0$

c+d

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g+b-d

$Q_1^s \quad Q_0^s$ ()

$Q_1^d \quad Q_0^d$

a+b

a+b+c+d+e+f+g

b+c+d+e+f+g+h

b+h

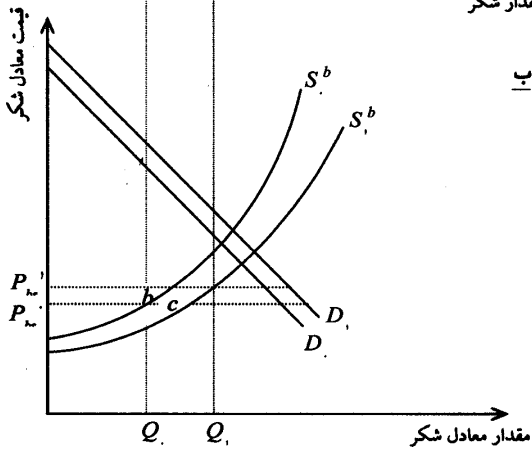
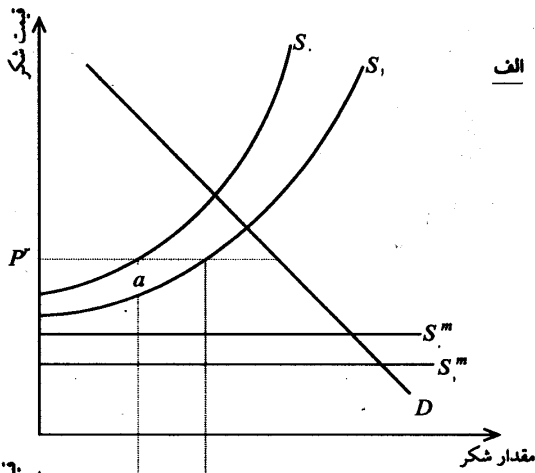
S_0

i

S_1

b+c

i+b+c



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