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In[1]:= p1T = 10.4
p2S = 2.7
qT = 60144810
qS = 19665319

BT = 1.11 * qT / p1T
GG = 0.02 * qS / p1T
AT = qT + BT * p1T - GG * p2S
BSS = 1.23 * qS / p2S
ASS = qS + BSS * p2S - GG * p1T

Valx = Simplify[{at, bet, g, as, bes} /.
  Solve[{AT ==  $\frac{at\,bes - as\,g}{bes\,bet - g^2}$ , BT ==  $\frac{bes}{bes\,bet - g^2}$ , GG ==  $\frac{g}{bes\,bet - g^2}$ ,
    ASS ==  $\frac{as\,bet - at\,g}{bes\,bet - g^2}$ , BSS ==  $\frac{bet}{bes\,bet - g^2}$ }, {at, bet, g, as, bes}]];
at = Valx[[1, 1]]
bet = Valx[[1, 2]]
g = Valx[[1, 3]]
as = Valx[[1, 4]]
bes = Valx[[1, 5]]

deH = 0.19
delR = 0.12
H = deH * p2S
R = delR * p1T
pT = 10.4;
pS = 2.7;

MEATCONSUMERONLY
qBB = 1018757395
BTmm = 1.11 * qBB / p1T
zzGE = BTmm * GG / BT
AMz = qBB + BTmm * p1T - zzGE * p2S
BLL = BTmm * BSS / BT
ALLz = 0 + BLL * p2S - zzGE * p1T

Mxx = Simplify[{amm, bmm, gmm, ale, ble} /.
  Solve[{AMz ==  $\frac{amm\,ble - ale\,gmm}{ble\,bmm - gmm^2}$ , BTmm ==  $\frac{ble}{ble\,bmm - gmm^2}$ , zzGE ==  $\frac{gmm}{ble\,bmm - gmm^2}$ ,
    ALLz ==  $\frac{ale\,bmm - amm\,gmm}{ble\,bmm - gmm^2}$ , BLL ==  $\frac{bmm}{ble\,bmm - gmm^2}$ }, {amm, bmm, gmm, ale, ble}]];
amm = Mxx[[1, 1]]
bmm = Mxx[[1, 2]]
gmm = Mxx[[1, 3]]
ale = Mxx[[1, 4]]
ble = Mxx[[1, 5]]

WelfareViandeLentille
eff2 = as * xeqS - (pS - s) * xeqS -  $\frac{bes * xeqS^2}{2}$  + at * xeqT -
  (pT + t) * xeqT -  $\frac{bet\,xeqT^2}{2}$  - g * xeqT * xeqS + H * xeqS - R * xeqT;
eeli = at - bet * xT - g * xS;

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ee2i = as - bes * xS - g * xT;
uxi = Simplify[{xT, xS} /. Solve[{ee1i == pT + t, ee2i == pS - s}, {xT, xS}]];
Weli = Simplify[eff2 /. {xeqT -> uxi[[1, 1]], xeqS -> uxi[[1, 2]]}];
WelfareforMeatOnly

eff33 = ale * xeqSUU - (pS - s) * xeqSUU -  $\frac{ble * xeqSUU^2}{2}$  + amm * xeqTXX -
      (pT + t) * xeqTXX -  $\frac{bmm * xeqTXX^2}{2}$  - gmm * xeqTXX * xeqSUU + H * xeqSUU - R * xeqTXX;
ee1Y = amm - bmm * xTt - gmm * xSs;
ee2Y = ale - ble * xSs - gmm * xTt;
uxiVV = Simplify[{xTt, xSs} /. Solve[{ee1Y == pT + t, ee2Y == pS - s}, {xTt, xSs}]];
Weli33 = Simplify[eff33 /. {xeqTXX -> uxiVV[[1, 1]], xeqSUU -> uxiVV[[1, 2]]}];
Budget
tax1 = +t * uxi[[1, 1]] + t * uxiVV[[1, 1]] - s * uxi[[1, 2]] - s * uxiVV[[1, 2]]
Welfare
welpr = Simplify[Weli + Weli33 + tax1]

ECOWELFARE
OptiTAXSubvention
uSpr = {t, s} /. Solve[{D[welpr, t] == 0, D[welpr, s] == 0}, {t, s}]
welfaretaxe
welFIFI = N[welpr /. {t -> R, s -> H}]
Welfaresansrien
welFx = N[welpr /. {t -> 0, s -> 0}]
VariationQuantite
vian = N[uxi[[1, 1]] + uxiVV[[1, 1]] /. {t -> R, s -> H}];
lent = N[uxi[[1, 2]] + uxiVV[[1, 2]] /. {t -> R, s -> H}];
viande
variviande = vian - qT - qBB
rela = variviande / (qT + qBB)
lentille
varilent = lent - qS
rela2 = varilent / (qS)
Variationwelfare
delvvvv = N[welFIFI - welFx]
ral33 = delvvvv / welFx

WelfareDaly
xeqTyy = qT * 0.7;
xeqSyy = qS + qT * 0.3;
eff2yy = as * xeqSyy - (pS) * xeqSyy -  $\frac{bes * xeqSyy^2}{2}$  + at * xeqTyy -
      (pT) * xeqTyy -  $\frac{bet * xeqTyy^2}{2}$  - g * xeqTyy * xeqSyy + H * xeqSyy - R * xeqTyy;
xeqTXXxx = qBB * (0.7);
xeqSUUxx = qBB * (0.3);
eff33yy = ale * xeqSUUxx - (pS) * xeqSUUxx -  $\frac{ble * xeqSUUxx^2}{2}$  + amm * xeqTXXxx -
      (pT) * xeqTXXxx -  $\frac{bmm * xeqTXXxx^2}{2}$  - gmm * xeqTXXxx * xeqSUUxx + H * xeqSUUxx - R * xeqTXXxx;
WWW = eff2yy + eff33yy
VariationQuantite
viande
ccvv = -(qT * 0.3 + qBB * (0.3))

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lentille
rrr = qT*0.3 + qBB*(0.3)
rela = rrr / qS
Variationwelfare
delvvvv22 = Expand[WWW - welFx]
rela = delvvvv22 / welFx

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Out[1]= 10.4

Out[2]= 2.7

Out[3]= 60144810

Out[4]= 19665319

Out[5]= 6.4193×10^6

Out[6]= 37817.9

Out[7]= 1.26803×10^8

Out[8]= 8.95865×10^6

Out[9]= 4.34604×10^7

Out[11]= 19.7825

Out[12]= 1.55784×10^{-7}

Out[13]= 6.57625×10^{-10}

Out[14]= 4.93473

Out[15]= 1.11627×10^{-7}

Out[16]= 0.19

Out[17]= 0.12

Out[18]= 0.513

Out[19]= 1.248

Out[22]= MEATCONSUMERONLY

Out[23]= 1018757395

Out[24]= 1.08733×10^8

Out[25]= 640575.

Out[26]= 2.14785×10^9

Out[27]= 1.51745×10^8

Out[28]= 4.0305×10^8

Out[30]= 19.7696

Out[31]= 9.19709×10^{-9}

Out[32]= 3.88245×10^{-11}

Out[33]= 2.73955

Out[34]= 6.59016×10^{-9}

Out[35]= WelfareViandeLentille

General::spell1 :

Possible spelling error: new symbol name "xeqT" is similar to existing symbol "xeqS". Plus...

Out[41]= WelfareforMeatOnly

Out[47]= Budget

Out[48]= $(1.01876 \times 10^9 - 640575. s - 1.08733 \times 10^8 t) t + (6.01448 \times 10^7 - 37817.9 s - 6.4193 \times 10^6 t) t -$
 $s (1.96653 \times 10^7 + 8.95865 \times 10^6 s + 37817.9 t) -$
 $s (-8.52992 \times 10^{-9} + 1.51745 \times 10^8 s + 640575. t)$

Out[49]= Welfare

Out[50]= $-8.03519 \times 10^7 s^2 + s (8.32877 \times 10^7 - 678393. t) - 5.7576 \times 10^7 (-9.40761 + t) (6.90557 + t)$

Out[51]= ECOWELFARE

Out[52]= OptiTAXSubvention

Out[53]= {{1.248, 0.513}}

Out[54]= welfaretaxe

Out[55]= 3.85168×10^9

Out[56]= Welfareesansrien

Out[57]= 3.74042×10^9

General::spell1 :

Possible spelling error: new symbol name "Quantite" is similar to existing symbol "Quantile". Plus...

Out[58]= QuantiteVariation

Out[61]= viande

Out[62]= -1.44058×10^8

Out[63]= -0.133523

Out[64]= lentille

Out[65]= 8.32877×10^7

Out[66]= 4.23526

Out[67]= Variationwelfare

Out[68]= 1.11255×10^8

Out[69]= 0.0297441

Out[70]= WelfareDaly

General::spell1 :

Possible spelling error: new symbol name "xeqSyy" is similar to existing symbol "xeqTyy". Plus...

Out[77]= 3.53339×10^9

Out[78]= QuantiteVariation

Out[79]= viande

Out[80]= -3.23671×10^8

Out[81]= lentille

Out[82]= 3.23671×10^8

Out[83]= 16.459

Out[84]= Variationwelfare

Out[85]= -2.07033×10^8

Out[86]= -0.0553501