International Economics 2024

Home assignment 6: Answers

(a)

Home is labor rich, Foreign is labor poor: 600/400>600/500

Home is capital poor, Foreign is capital rich: 400/600<500/600

Food is labor intensive: 5/3>4/4

Cars are capital intensive: 4/4>3/5

(b)

To find outputs:

Labor market equilibrium: 600=5F+4C

Capital market: 400=3F+4C

Hence, outputs are F=100, C=25. The relative supply of food is F/C=4

To find the autarky price you need to find the intersection of relative supply and relative demand:

 $P^F/P^C=1.1-(0.075)*4$

Hence, $P^F/P^C=0.8$

(c)

To find outputs:

Labor market equilibrium: 600=5F+4C

Capital market: 500=3F+4C

Hence, outputs are F=50, C=87.5. The relative supply of food is F/C=50/87.5

To find the autarky price you need to find the intersection of relative supply and relative demand:

PF/PC=1.1-(0.075)* 50/87.5

Hence, $P^F/P^C=1.06$

With trade the outputs in both countries are the same as above and hence the relative

To find the trade relative price of F:

Hence,
$$P^F/P^C=1$$