1.3 — The Ricardian View of Trade: Comparative Advantage — Practice Problems (Solutions)

ECON 324 — International Trade

Gondor and Rohan can each produce oil (o) and linen (l).

If Gondor devotes all of its resources to producing either good, it can produce 500 barrels of oil or 200 yards of linen. If Rohan devotes all of its resources to producing either good, it can produce 300 barrels of oil or 100 yards of linen.

Currently, Gondor is producing 250 barrels of oil and 100 yards of linen, and Rohan is producing 150 barrels of oil and 50 units of linen.

Put oil (o) on the horizontal axis and linen (l) on the vertical axis.

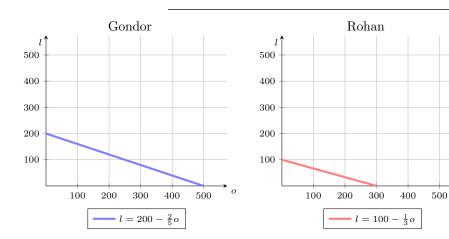
1. Write the equation of each country's production possibilities frontier (PPF).

If they both spent all of their resources on producing each good, they could achieve a maximum as follows:

	Oil	Linen
Gondor	500	200
Rohan	300	100

By just graphing the two endpoints, we can construct the PPFs:

2. Graph each country's PPF.



3. Which country has an	n absolute advantange	in produ	icing each g	good? Why?	,	
Gondor has an absolute adv	vantage in producing b	ooth Oil	and Linen		-	
4. Find each country's o	pportunity cost of pro	ducing 6	each good.			
The slope of each PPF is each person's opportunity c			of the horiz	zontal good.	The inverse of th	ıe slope i
		1 Oil	1 Linen			
	Gondor	0.41	2.5o			
	Rohan	$\frac{1}{3}$ l	3o			
5. Which country has a	comparative advantage	e in proc	lucing each	good? Why	₇ ?	
Gondor has a comparative a	advantage in producin	g Linen,	since it ha	s a lower op	portunity cost the	an Rohar
Rohan has a comparative a	dvantage in producing	g Oil, sin	ce it has a	lower oppor	tunity cost than (Gondor.

The price paid for Oil will be between $\frac{1}{3}$ and 0.4 Linens. Likewise for Linen, it will be between 2.5 and 3 barrels of Oil.