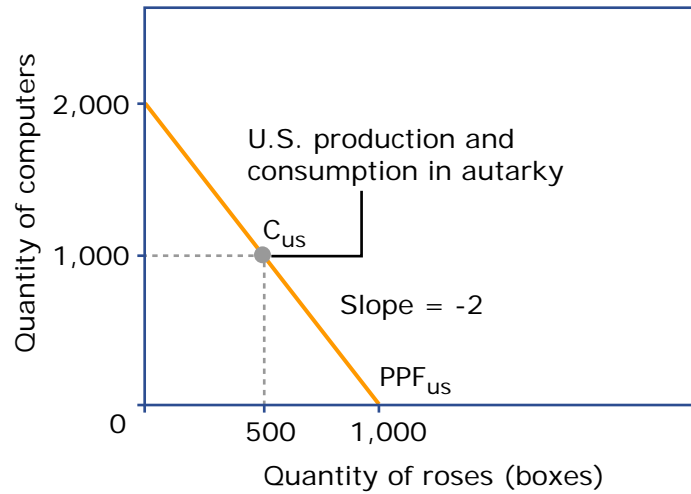
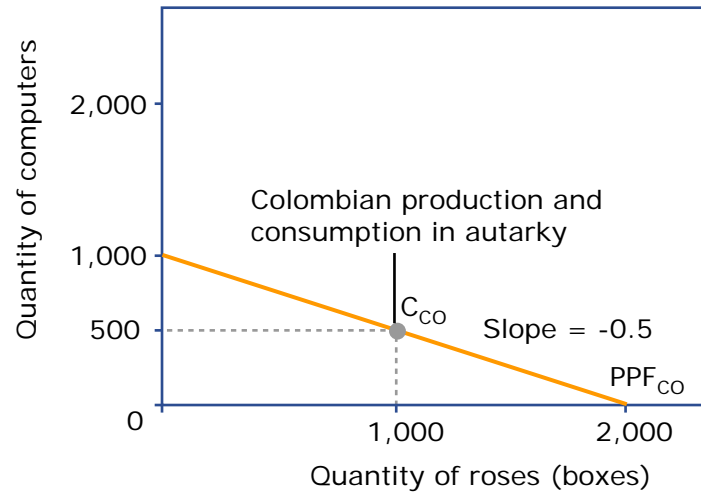


Figure 19-1: Production possibility frontier

(a) U.S. Production Possibility Frontier



(b) Colombian Production Possibility Frontier



(c) Joint Production Possibility Frontier

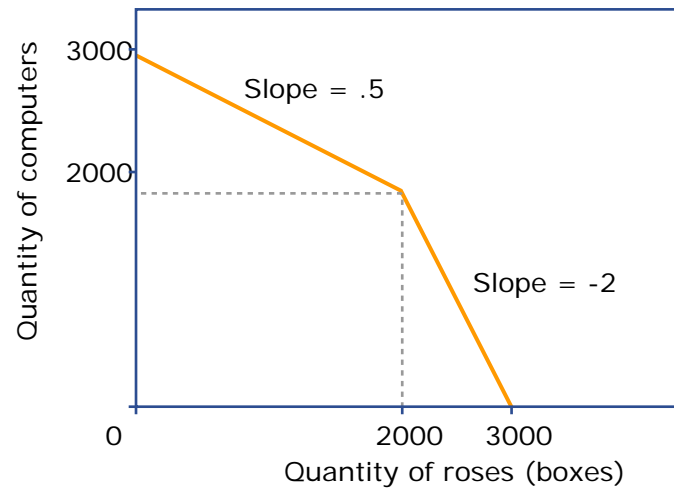
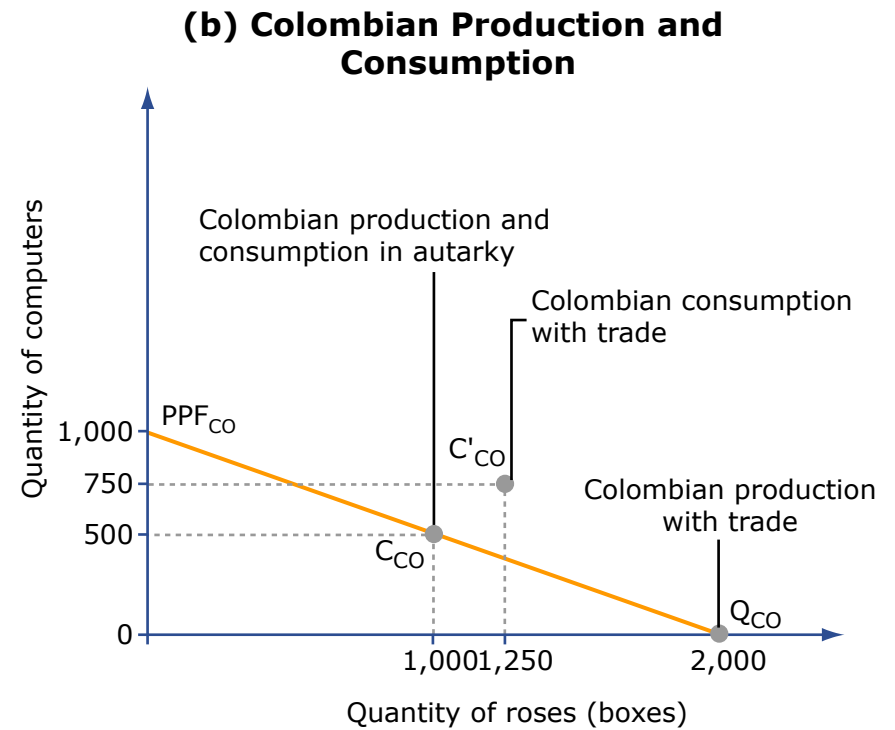
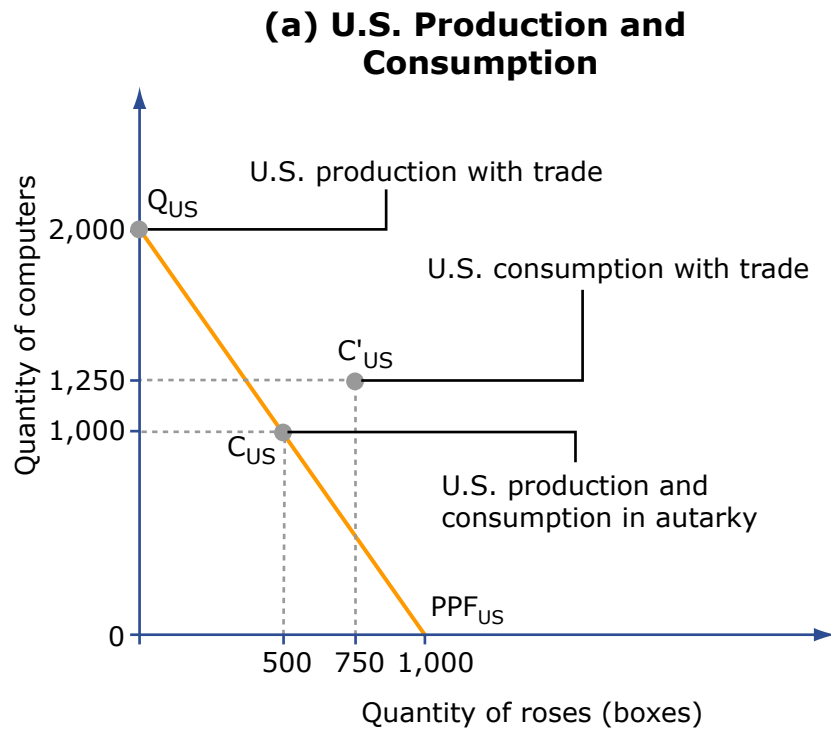


Figure 19-2: Gains from trade



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Figure 19-3: Producer and consumer surplus in autarchy

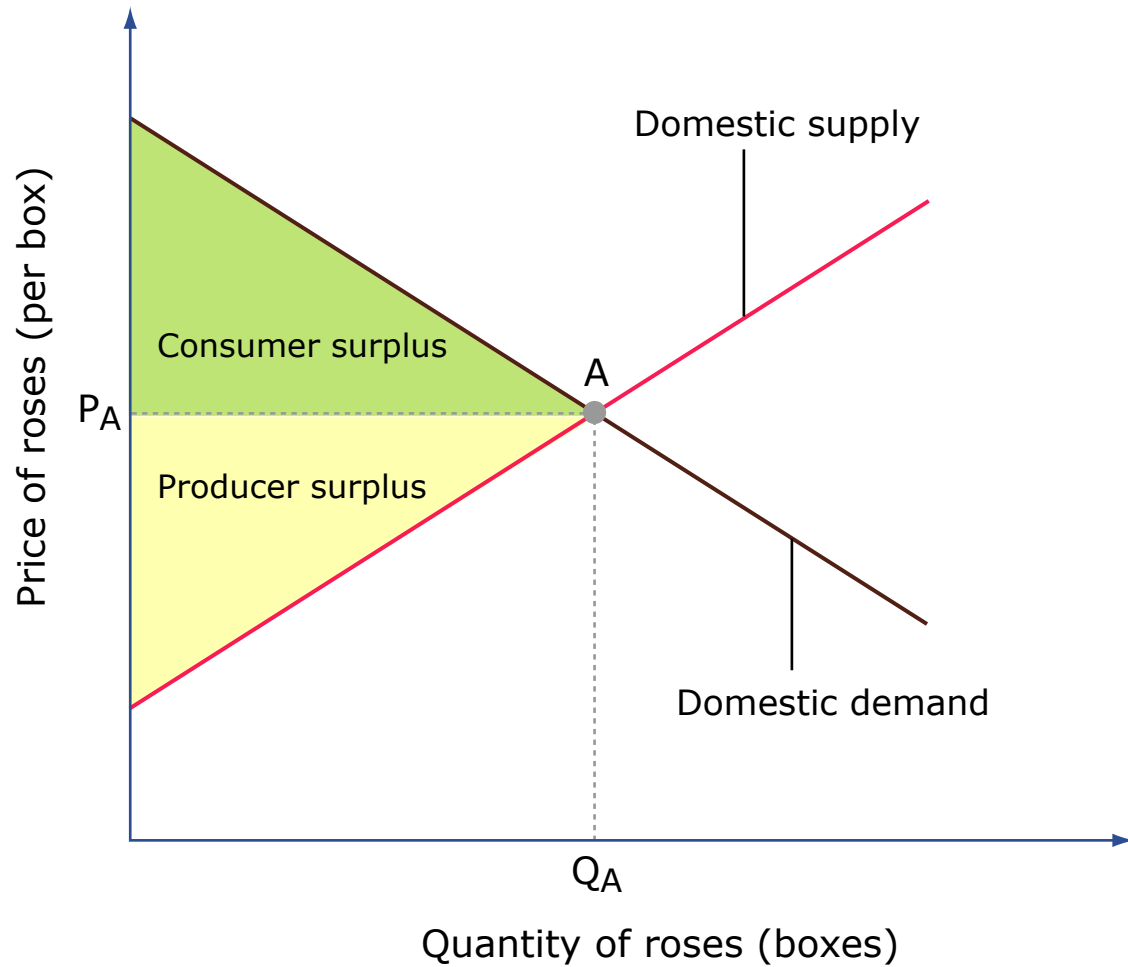


Figure 19-4: Rose market with imports

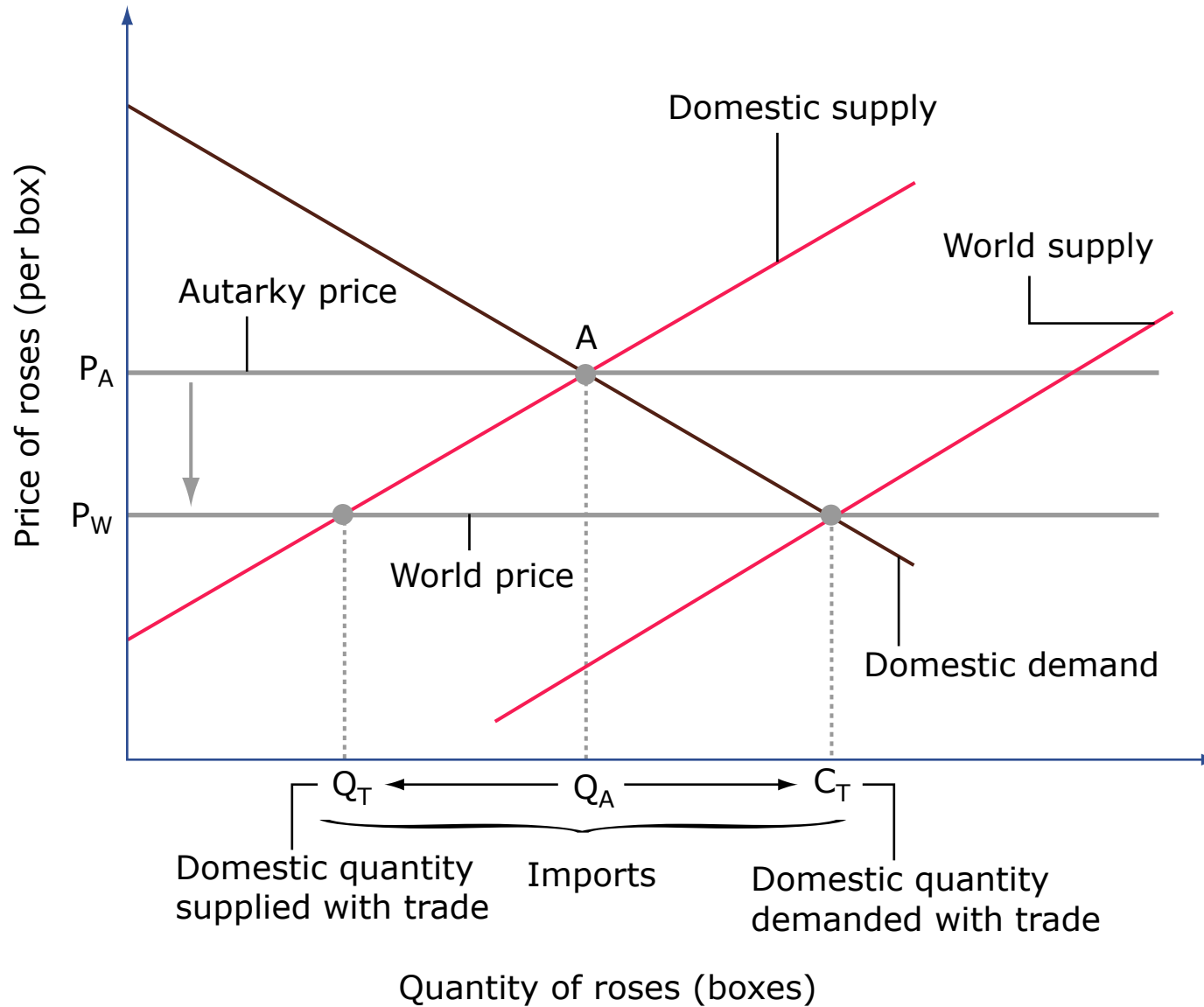
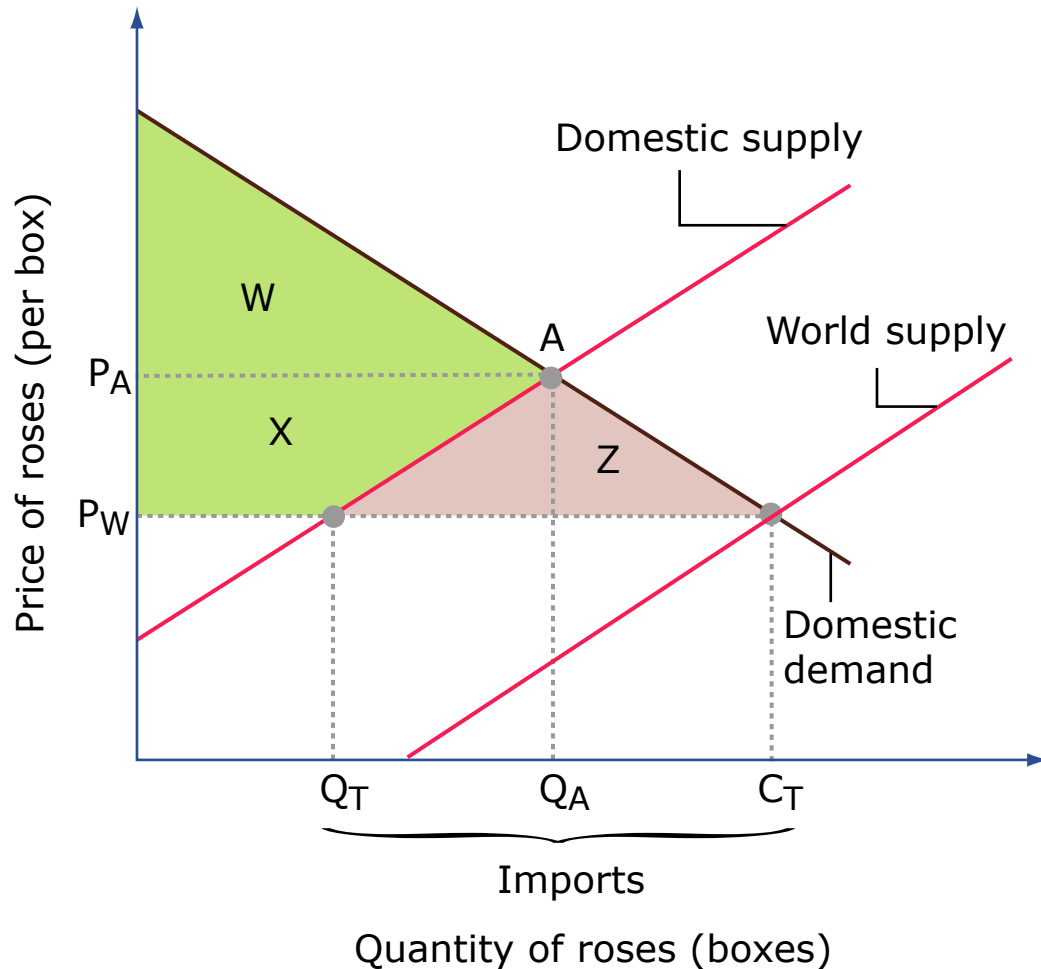


Figure 19-5: The impact of imports on consumer and producer surplus



	Changes in surplus	
	Gain	Loss
Consumer surplus	$X + Z$	
Producer surplus		$-X$
Change in total surplus	$+ Z$	

Figure 19-6: World price and exports

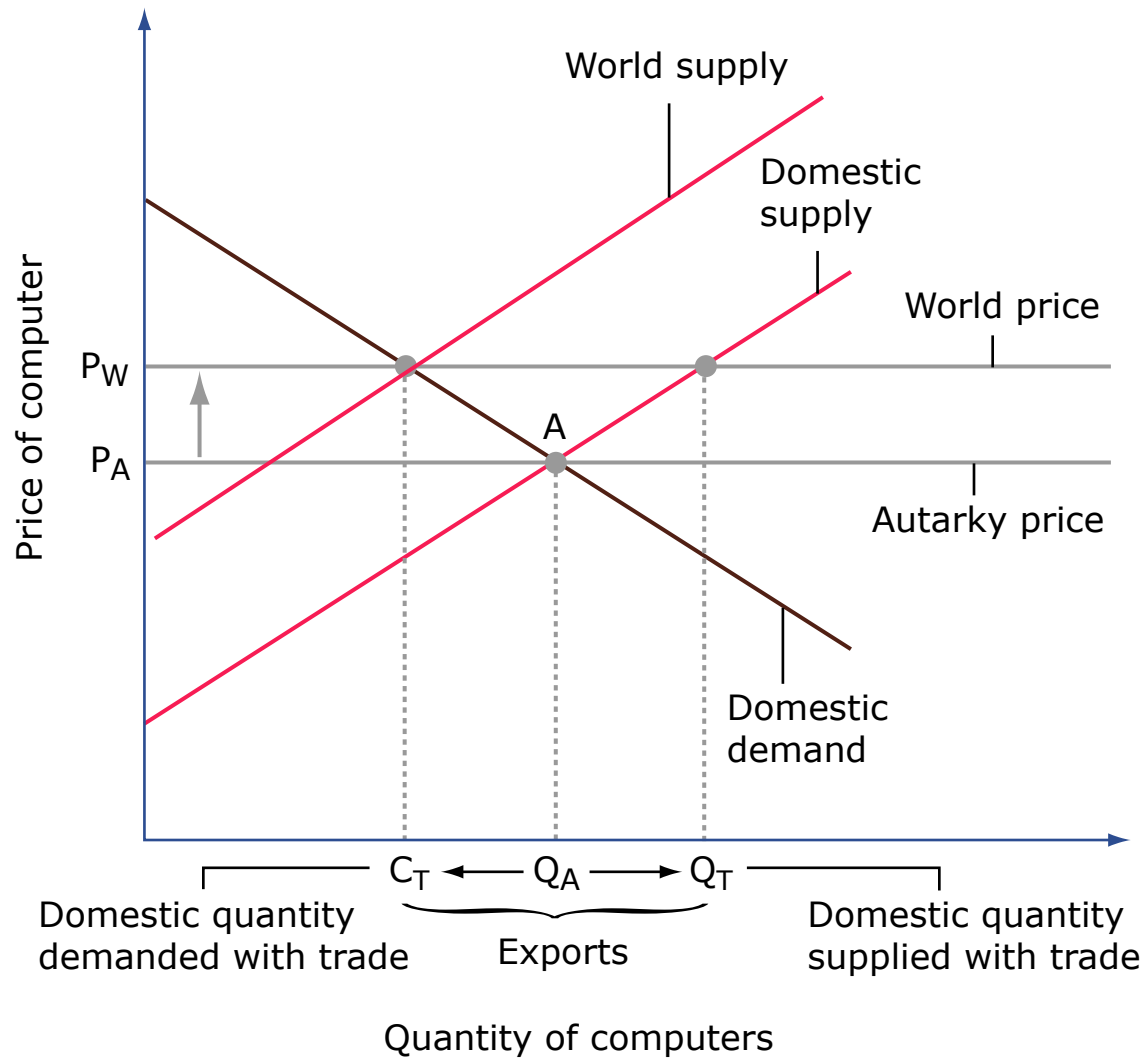
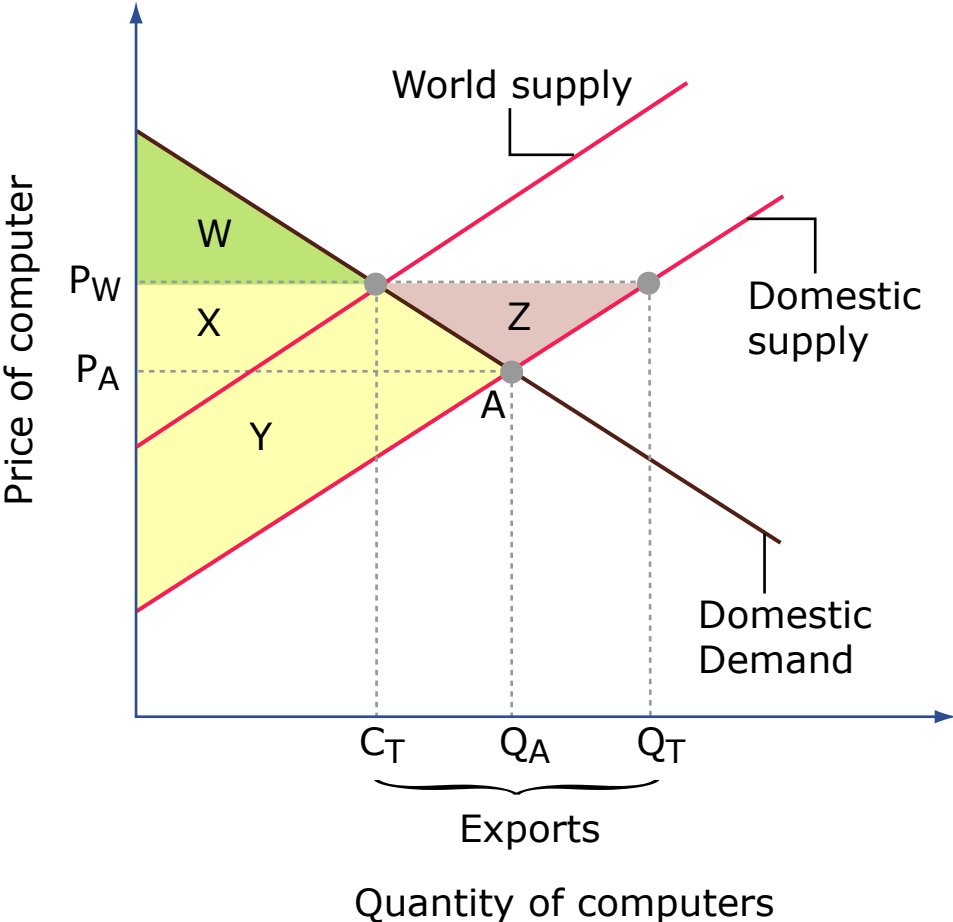


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Figure 19-7: The impact of exports on consumer and producer surplus



	Changes in surplus	
	Gain	Loss
Consumer surplus		-X
Producer surplus	X + Z	
Change in total surplus	+ Z	

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Figure 19-8: Tariff

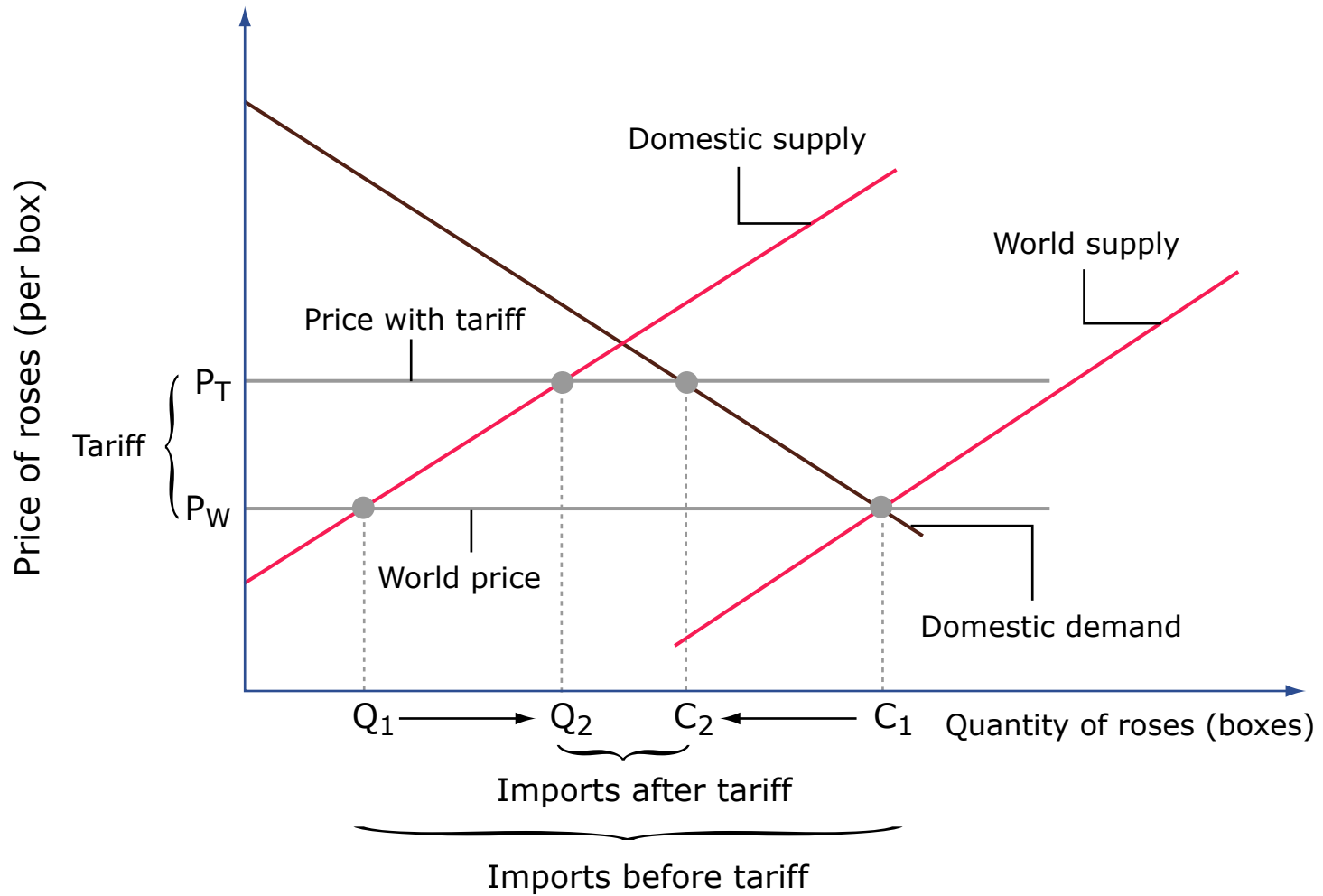
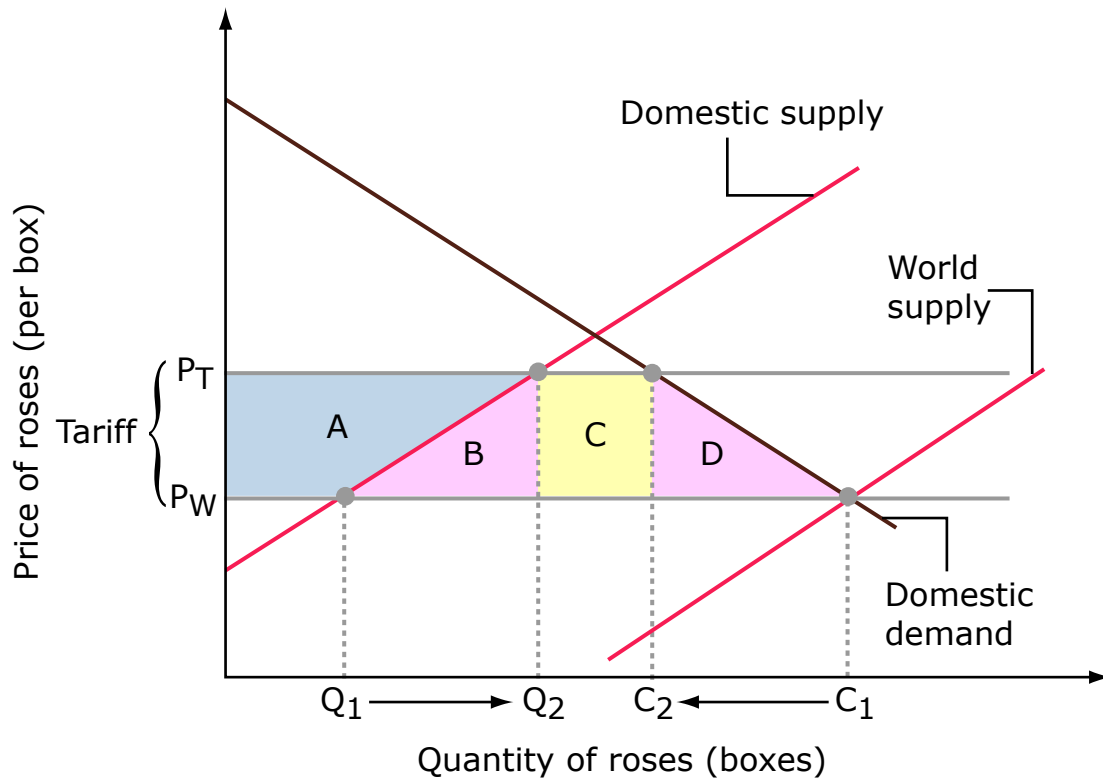


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Figure 19-9: Impact of tariff on surplus



	Changes in surplus	
	Gain	Loss
Consumer surplus		$-(A+B+C+D)$
Producer surplus	A	
Government revenue	C	
Change in total surplus		$-(B+D)$

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