HW 5 Taxation 1

Friday, September 11, 2020 4:41 PM

Warleed W/ Alex, Austin, + River

tessed salution review

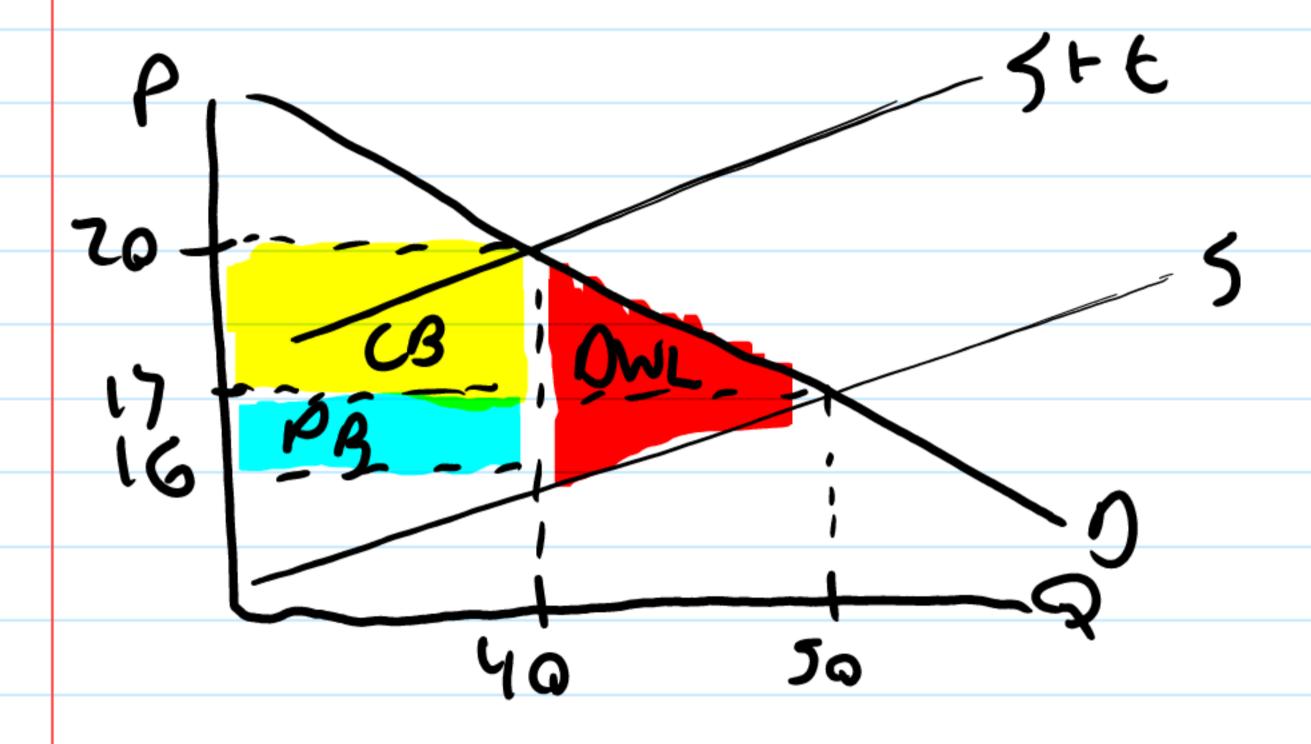
At the current market equilibrium, price is \$17 and quantity is 50. A tax of 25% is imposed, after which the price paid by consumers including the tax is \$20 and the new equilibrium quantity is 40. Sketch a figure illustrating the equilibrium before and after the tax. Calculate tax revenue/ the producer burden, the consumer burden, and the excess burden.

Hint: If τ is the tax rate, the price paid by consumers is (1+ τ) times the price received by suppliers

once the tax is remitted to the government.

P=17 Q=50 t=25%

At = 20 Qtt=40



Tax revenue: (20-16).40:40:\$160

Araducer burden: (40-0) · (17-16) = 40-17/10 Pp=15.75 Qp=40

P = 17.27 P = 17

Q₀ = 30 Q₀ = 30 Q₁ = 40

consumer butden: (20-17).(40-0) = 3.40 = \$120

1) VL: \(\frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2} \right)

= 5 + 15 : 20