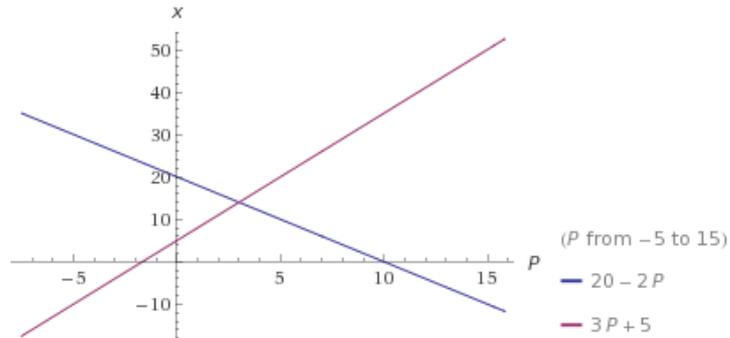1. The equilibrium price and quantity are in the point where Qd = Qs
   20 - 2P = 5 + 3P
   5P = 15
   The equilibrium price is P = $3
   The equilibrium quantity is Q = 20 - 2*3 = 14 units

2. If the government imposes a tax of $5.00, the new equilibrium price and quantity will be calculated as follows:
   Qd = Qs(with tax)
   20 - 2P = 5 + 3(P - 5)
   20 - 2P = 3P – 10
   5P=30
   The equilibrium price is P = $6
   The equilibrium quantity is Q = 20 - 2*6 = 8 units