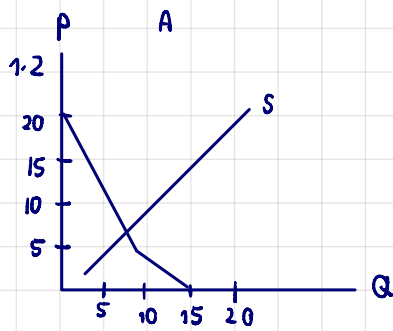
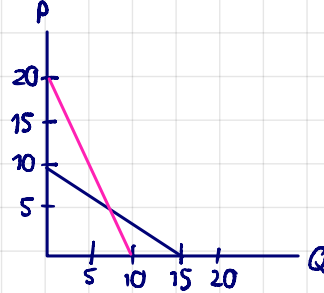
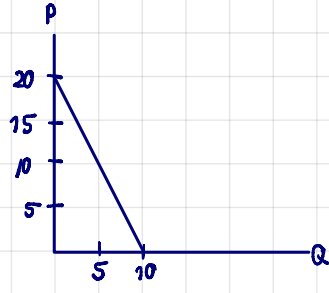
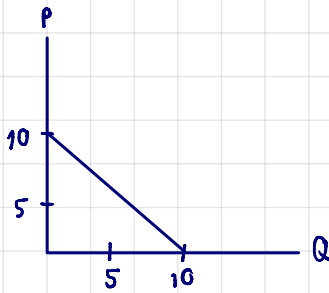


6304641365

- 1) 2 consumers / 1 seller
 A: $Q_A = 10 - D$; $Q = D$
 $P = 10 - Q$
 B: $Q_B = 10 - \frac{1}{2}P$
 $P = 20 - 2Q$

1.1 draw individual Demand & market demand diagram



1 buyer in the market

$$Q_{\text{mkt}}^D = 10 - \frac{1}{2}P ; P > 10$$

$$20 - \frac{1}{2}P ; P \leq 10$$

3j

$$Q^d = \frac{q-p}{b}$$

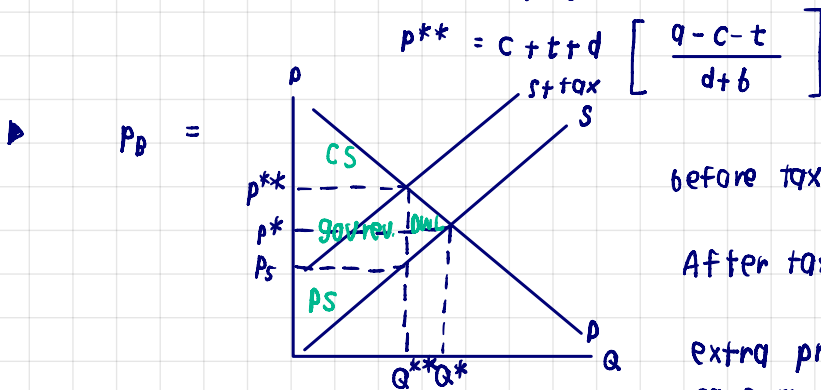
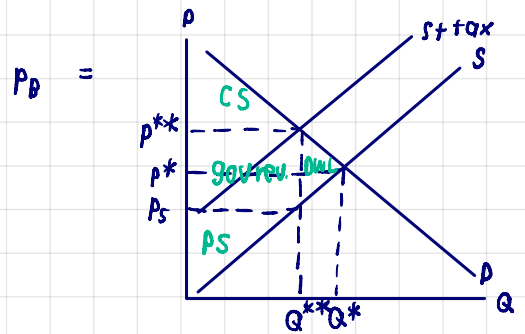
$$Q^s = \frac{p-c-t}{a}$$

eqbm $p^s = p^d$

$$c + aQ^s + t = q - bQ^d$$

$$Q(d+b) = q - c - t$$

$$Q^{**} = \frac{q - c - t}{d + b}$$



before tax: consumer buy p^* (cheap)
 seller can sell at high price (p^*)
 After tax: consumer buy higher price p^* at p^{**} (p_b)
 producer will receive less
 extra price that is = $(P_b - p^*) \times Q^{**}$
 consumers pay
 extra price that producer pay $(p_s - p^*) \times Q^{**}$

► $\frac{\partial \text{tax} \cdot \text{rev.}}{\partial T} = \left[\frac{a-c-t}{a-b} \right] \times t$

$$= at - ct - t^2 + a^2t + b^{-1}t$$

$$0 = a - c - 2t - a - b$$

$$2t = a - c - d - b$$

$$t = \frac{a - c - d - b}{2}$$

3.k eqbm :

$$Q^S = Q^D$$

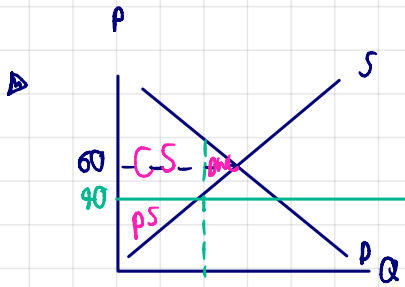
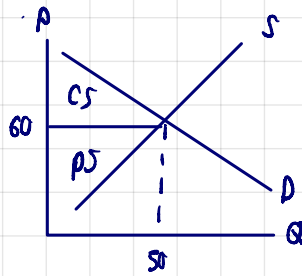
$$-2Q + 160 = 3Q$$

$$3Q = 160 - 2Q$$

$$5Q = 160$$

$$Q = 32$$

$$P = 60$$



announcement of policy is decrease
 quantity of renting apartment
 by having a cheaper price people will
 demand more apartment
 However the owner is not want to
 rent own room