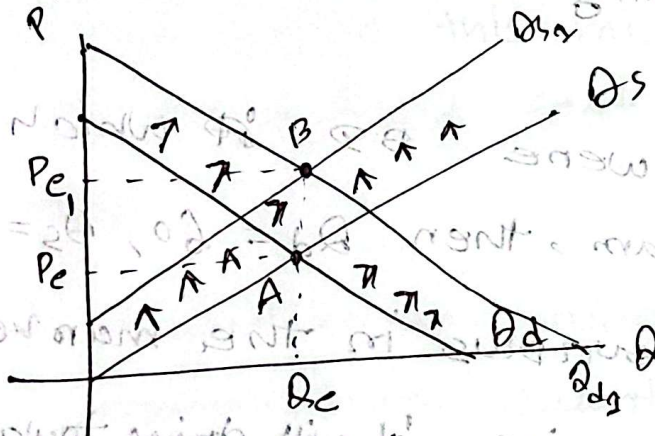


Question 1

Due to the importance of blueberries in medical purposes, demand will increase which will create a rightward shift in curve. Also due to drought, natural disaster supply of blueberries will hinder which will create a leftward shift in the curve.

If we consider this,

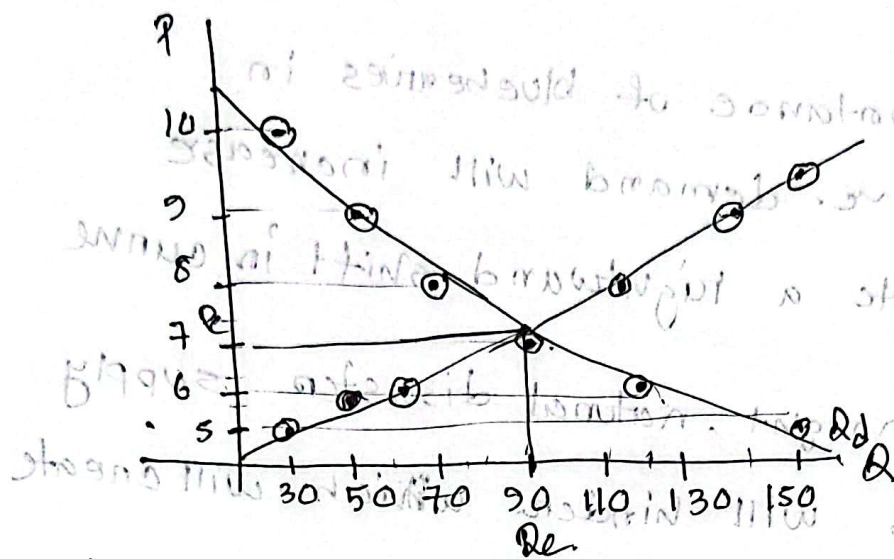


So we can say price will definitely increase,

But Quantity supply and Quantity demand will,

means Quantity will depend which effect more.

Question 2



a)

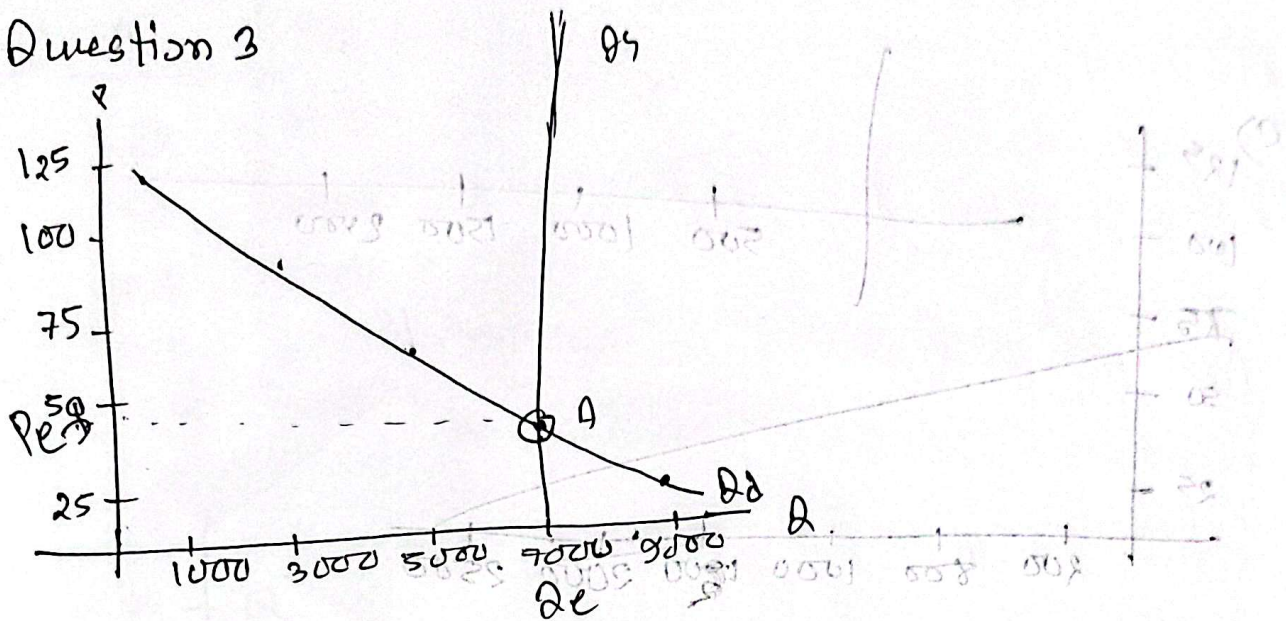
equilibrium price = \$7
equilibrium quantity = 90 kg

b) If actual price were \$9, which is above equilibrium, then $Q_d = 60$, $Q_s = 125$.
 $Q_d < Q_s$ means surplus in the market.

By decreasing the price, it will drive towards equilibrium.

c) If actual price were \$5, which is below equilibrium then $Q_d = 150$, $Q_s = 30$,
 $Q_d > Q_s$, which means shortage in the market.
By increasing the price, drive toward equilibrium.

Question 3

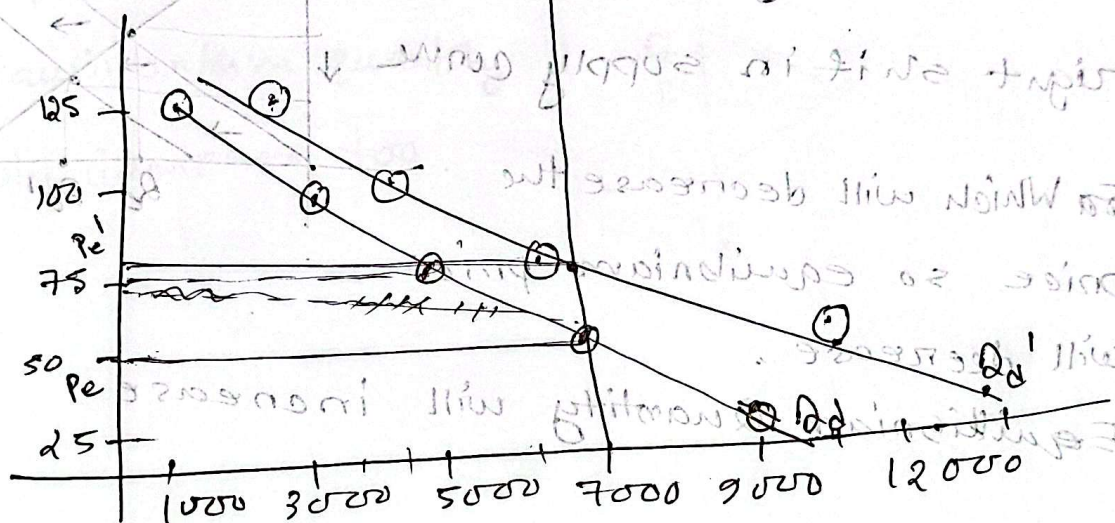


a) From the supply curve, we can tell that even if price changes the supply of tickets stays same this might occur because of limited & fixed seat in concert venue.

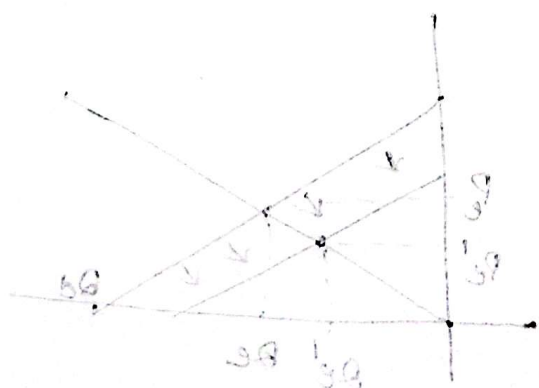
b) equilibrium price \$50
equilibrium quantity 7000

c)

P	Qd (total)
25	$1000 + 3000 = 4000$
50	$2000 + 2500 = 4500$
75	$3000 + 1500 = 4500$
100	$3000 + 1800 = 4800$
1250	$1000 + 7000 = 8000$



new equilibrium price = 77 (approx)
 new equilibrium quantity = 7000



④

Question 4

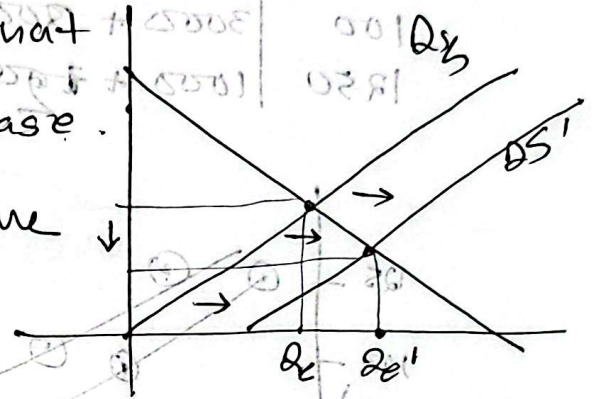
a) The market for electric vehicles

Cost has been reduced, so that
means supply will increase.

right shift in supply curve

Which will decrease the
price so equilibrium price
will decrease.

Equilibrium Quantity will increase.



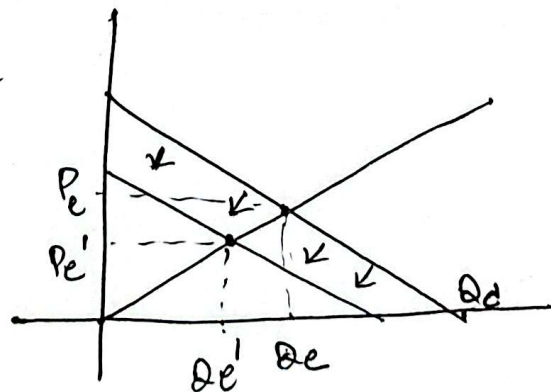
b) Market for gasoline/petrol.

Demand for gasoline/petrol will decrease.

so a leftward shift in demand curve

equilibrium
so price will decrease

Equilibrium quantity
will decrease too



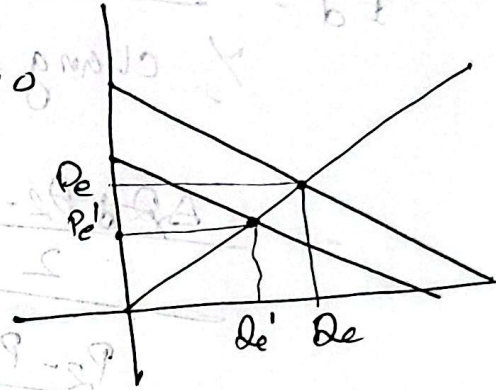
6

c) The market for traditonal internal combustion engine vehicles.

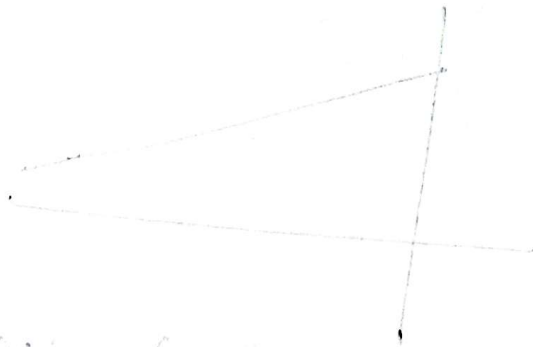
demand will decrease. which will cause a leftward shift.

so price will decrease too

Equilibrium quantity will decrease too.



elastic $\epsilon < -1$
inelastic $\epsilon > -1$



elastic $\epsilon < -1$
inelastic $\epsilon > -1$



Question 5

a) i) business travelers:

$$P_1 = 100$$

$$Q_1 = 2200$$

$$P_2 = 120$$

$$Q_2 = 2000$$

$$|E_d| = \frac{Q_2 - Q_1}{Q_2 + Q_1} \times \frac{P_2 + P_1}{P_2 - P_1}$$

$$= \frac{2000 - 2200}{2200 + 2000} \times \frac{120 + 100}{120 - 100}$$

$$|E_d| = 0.52$$

which is $|E_d| < 1$ inelastic.

ii) Students.

$$P_1 = 100$$

$$Q_1 = 900$$

$$P_2 = 120$$

$$Q_2 = 600$$

$$|E_d| = \frac{Q_2 - Q_1}{Q_2 + Q_1} \times \frac{P_2 + P_1}{P_2 - P_1}$$

$$= \frac{600 - 900}{600 + 900} \times \frac{120 + 100}{120 - 100}$$

$|E_d| = 2.2$ which $|E_d| > 1$ elastic demand.

b) from a) we can see student has elastic demand and business travelers has inelastic demand.

as we know demand tends to be more elastic if the good is luxury and has large

number of close substitute.

and demand tends to be more inelastic

if it's a necessary good and has smaller

number of close substitute.

as we can say train tickets tends to be a

luxury good for student and has many other

substitute that why it's more elastic for student

than business travelers.

$$121 = 84 \times$$

$$128 = 91 \times$$

as a decrease in price will increase the quantity demanded and total revenue if the demand is elastic.

Question 6

price elasticity of demand is the percentage change in quantity demanded given a percentage change in the price

Total revenue is the amount paid by buyers and received by sellers of a good. $TR = P \times Q$

Here price increase demand quantity

demanded decrease 15% with total revenue

increase 25% which is

$$\% \Delta Q = 15\%$$

$$\text{initial } TR_1 = P_1 \times Q_1$$

$$\% \Delta TR = 25\%$$

$$TR_2 = P_2 \times Q_2$$

As ΔQ decrease price will increase.

If price of goods and total revenue

increase demand must be ~~inelastic~~ inelastic

Question 7.

a) i) income = \$30,000

$$P_1 = 15$$

$$P_2 = 20$$

$$Q_1 = 28$$

$$Q_2 = 20$$

$$|E_d| = \frac{Q_2 - Q_1}{Q_1 + Q_2} \times \frac{P_2 + P_1}{P_2 - P_1} = 1.16$$

$$0 < |E_d| < 1$$

$|E_d| > 1$ Elastic

ii) income = \$36,000

$$P_1 = 15$$

$$P_2 = 20$$

$$Q_1 = 40$$

$$Q_2 = 32$$

$$|E_d| = \frac{Q_2 - Q_1}{Q_1 + Q_2} \times \frac{P_2 + P_1}{P_2 - P_1} = 1.77$$

$|E_d| < 1$, inelastic

As the price of the good rises, the quantity demanded falls, so the demand curve is downward sloping.

As the price of the good rises, the quantity demanded falls, so the demand curve is downward sloping.

b)

$$Y_1 = 30000 \quad Q_1 = 20$$

$$Y_2 = 36000$$

$$Q_2 = 32$$

$$E_y = \frac{Q_2 - Q_1}{Q_2 + Q_1} \times \frac{Y_2 + Y_1}{Y_2 - Y_1} = 2.5$$

$$E_y > 0$$

$$Y_1 = 30000 \quad Q_1 = 12$$

$$Y_2 = 36000 \quad Q_2 = 22$$

$$E_y = \frac{Q_2 - Q_1}{Q_2 + Q_1} \times \frac{Y_2 + Y_1}{Y_2 - Y_1} = 3.24$$

c) as we know if $E_y > 0$ its normal goods
as for both income elasticity calculation

$E_y > 0$ so this streaming service is a normal good.