

For long run

Loc - 11

$$\text{Profit} = (P - AC) Q$$

For '0' profit

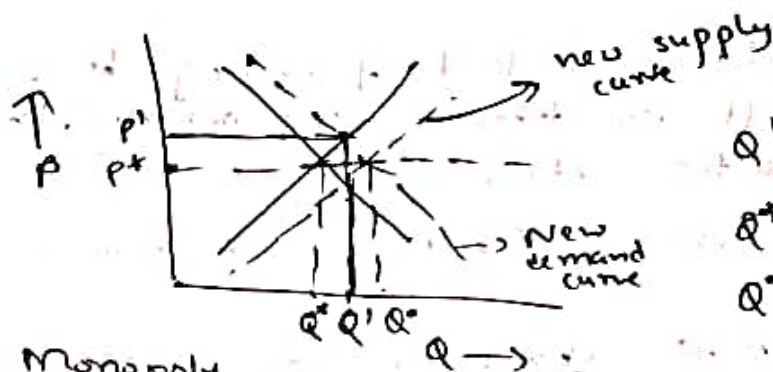
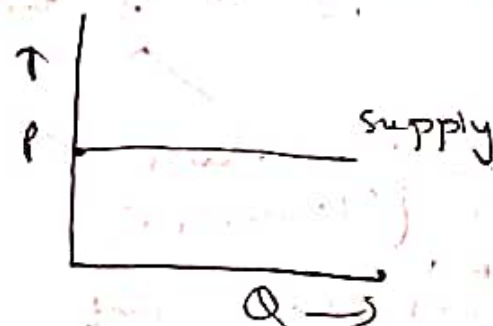
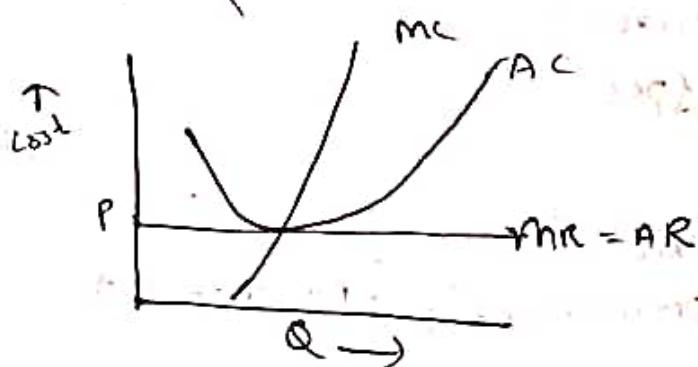
$$P = AC$$

If $P > AC \Rightarrow$ Firm enter

$P < AC \Rightarrow$ Exit

$$\Rightarrow P = AC = MR = AR$$

in perfect competition



Q' \rightarrow new eq quantity after change in demand
 Q^* \rightarrow old eq quantity
 Q^o \rightarrow new eq quantity after change in supply curve

[First demand changed due to which new firms entered then, supply changed, again eq established]

Monopoly :-

* Only one seller

* Firm can influence the price \Rightarrow price maker
 Ex:- Indian railway, Local cable TV network.

$$* TR = P \times Q$$

* Barriers to enter the market

1) Resources will be available only for one person/firm in monopoly sellers.

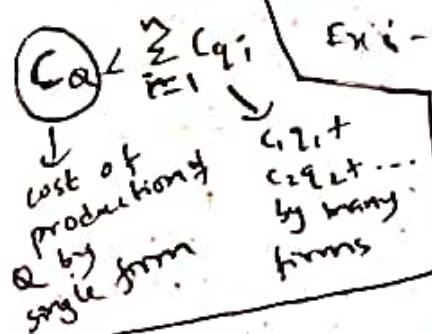
2) Government regulation (arms, patent)

3) Natural monopoly (A single firm can produce more efficiently than others).

Ex:- For Indian railway,
 revenue = 2 cost = 1.5

$$\text{profit} = 0.5$$

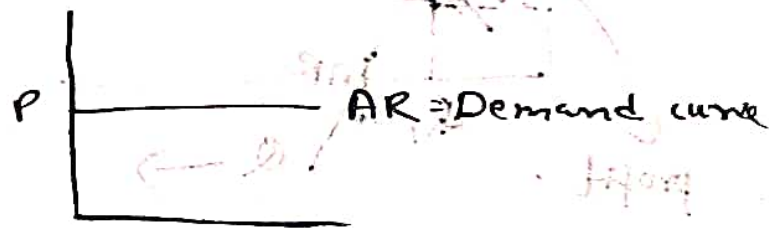
If new firm enter cost remain same while revenue becomes 1, which result in loss.



* Though they are price makers, if price \uparrow demand falls.

* A part of MC curve represents supply curve and a part of AR curve represent demand curve.

* In perfect competition,



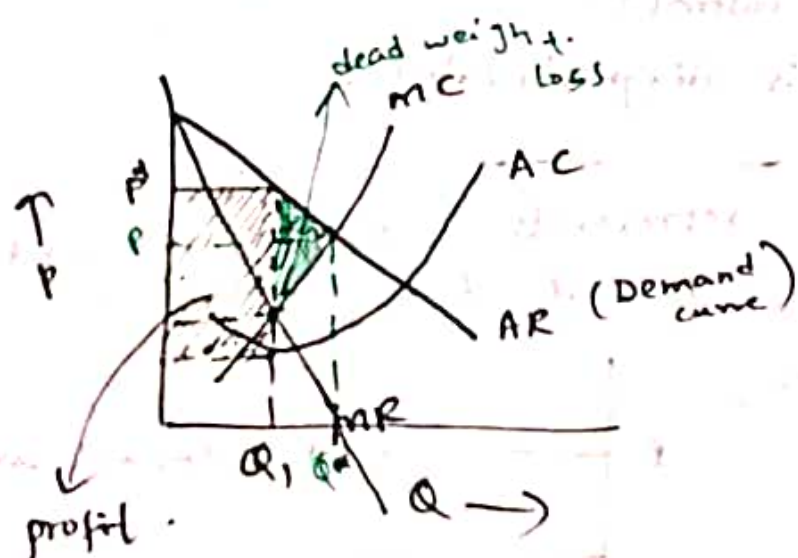
* In monopoly,



P & Q are negatively related.

* In monopoly, $P = AR$ but MR is always less than AR .

Q	P	TR ($P \times Q$)	AR (TR/Q)	MR ($\frac{\Delta TR}{\Delta Q}$)
0	11	0	—	—
1	10	10	10	10
2	9	18	9	8
3	8	24	8	6
4	7	28	7	4
5	6	30	6	2
6	5	30	5	0
7	4	28	4	-2
8	3	24	3	-4



* For profit maximisation
 $MR = MC$

* To sell Q , quantity P is the price which we get from demand curve.

- * In perfect competition, firm charge a price which is equal to MC . ($P = MC$)
- * In monopoly price is above MC . ($P > MC$)
- * From buyers view it is unfair whereas sellers are happy as they are getting more amount the marginal cost.
- * So, according to welfare point of view, the benefit is there for monopoly sellers.

- * Green colour is for perfect competition. There we fix price by the intersection of demand (AR) and supply curves (MC).
- * The ~~diff~~ green shaded portion indicates deadweight loss caused when we shift from perfect competition to monopoly.
- * Hence, monopoly is not good as there is deadweight loss.

Extra topic discrimination.

or Price distribution by monopoly \rightarrow u can read it from text book. Idk whether it comes in exam or not.