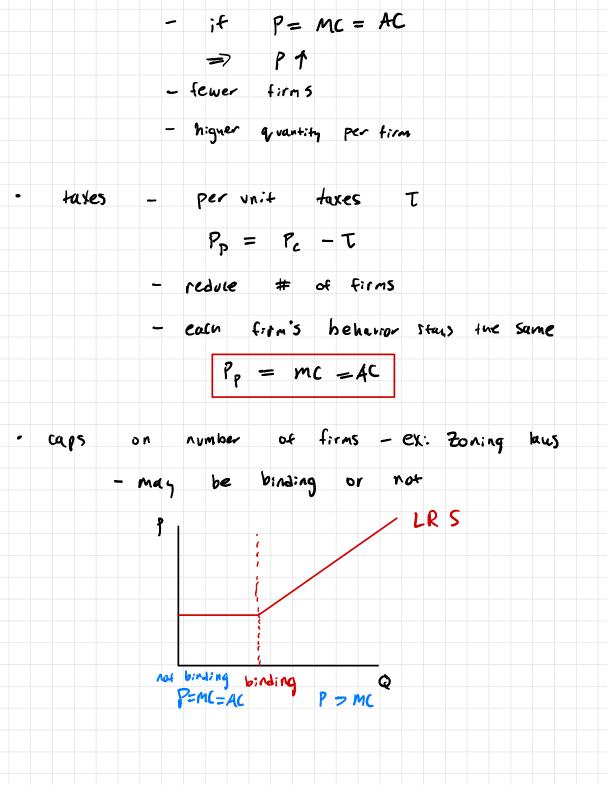
11-3 - 23 AC = C(q)c(q) = FC + VCdoes does , '+ defend on depend on g g . Short run Long run -FC are sink - can choose to pay FC - Operate if Revenuz VC - Films will enter/exit - Shut down if R < VC until P=mC=AC- Firms will earn o - can have pocitive Profit or negative profits - Supply :s pertectly - Nimber of firms elastic fixed Number of firms determined \$ MC by supply = demand · Licensing increase fited costs => increase AC



in Short run: operate if 
$$R = VC$$

Price taker  $\Rightarrow$   $R = P \cdot q$ 

to operate in  $SR$ , need  $P \cdot q = 60q$ 
 $P = 60$ 

2. each firm  $C(q) = 3q^2 + 5q + 27$ 

Longrun:  $P = MC = AC$ 
 $MC = \frac{3C}{3q} = 3 \cdot 2 \cdot q + 5 \cdot q^2 + 0$ 
 $= 6q + 5$ 
 $AC = C(q) = \frac{3q^2 + 5q + 27}{q}$ 
 $= 3q + 5 + \frac{27}{q}$ 

1. c(q) = 50+ 60q

to find q: MC = AC 6q + 7 = 3q + 7 + 27 -3q - 3q

to get 
$$P: P = MC(q^*)$$

$$= 6 \cdot q^* + 5 = 6 \cdot 3 + 5$$

$$= 23$$

$$P = 23$$

$$+ 0 + a_1 \quad Supp_1 = N \cdot q = N \cdot 3$$

$$+ 0 + a_1 \quad Demand = D(p) = D(23) = 53 - 23$$

=> 39 = 27 1

 $\Rightarrow 3q^2 = 27$ 

 $\Rightarrow$   $q^2 = 9 \Rightarrow (q = 3)$ 

N-q=D(p)

 $\Rightarrow$  3N = 30

 $\Rightarrow$  (N = (0))

- 30

3,

Supply = demand

$$MC = 69+5$$

$$AC = ((9)/9 = 39+5+ (48)/9)$$

$$Mc = Ac = 3q + 7 + \frac{48}{9}$$

$$-3q = \frac{48}{9}$$

$$4^{2} = 16 \implies 9 = 4$$

$$q^2 = 16 \implies q = 4$$

$$P = m((q^*) = 6 \cdot q^* + 5$$

$$P = M((q^*)) = 6q^* + 5$$
  
= 6.4 + 5 = 29  
 $P = 19$  enand  $P = 29$ 

$$= 6.4 + 5 = 29$$

$$Supply = Demand$$

$$N.q = 4N = D(p) = D(29)$$

$$= 6.4 + 5 = 29$$

$$1 = Demand$$

$$N \cdot 9 = 4N = D(p) = D(29)$$

$$= 53 - 24$$

$$V \cdot q = 4N = D(p) = D(29)$$
  
= 53 - 24  
= 24  
=>  $N = 6$ 

$$| (q) = 2q$$

$$| N = 6$$

$$| (q) = 3q^{2} + 5q + 27$$

$$| \Rightarrow m( = 6q + 5, AC = 3q + 5 + \frac{27}{9}$$

$$| P_{p} = P_{c} - T$$

$$P_{c} = P_{p} + T = 23 + 3 = 26$$

$$P_{c} = P_{p} + 7 = 25 + 3 = 26$$

N.3 = 27

(N= 9)

= 27