

week 2

1. K, L, Q, AP_L, AP_K, MP_L

20	5	20	4	1	4
20	10	43	4.3	2.15	4.6
20	15	57	3.8	2.85	2.8
20	20	67	3.35	3.35	x
20	25	75	3	3.75	1.6

$$2. \text{① } MP_L = 21 + 18L - 3L^2 \rightarrow \frac{dMP_L}{dL} = 18 - 6L = 0 \rightarrow L = 3$$

$$\text{② } MP_L = 0 \cdot L = 7$$

$$\text{③ } AP_L = 21 + 9L - L^2 \rightarrow \frac{dAP_L}{dL} = 9 - 2L = 0 \quad L = 4.5$$

$$3. MP_L = \frac{q}{2} = 5 \Rightarrow q = 50 \quad 4. \text{① } QA = 5LA - 4LB = 5LB$$

$$MK = \frac{q}{K} = \frac{50}{5} = 10$$

$$\text{② } Q = \min(2L, K)$$