1.

K	L	q	AP_L	AP_K	MP_L
20	0	0	×	×	×
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	2
20	25	75	3	3.75	1.6

2. (A) $MP_L = 21 + 18L - 3L^2$

$\rightarrow dMP_L/dL = 18 - 6L = 0$

$\rightarrow L = 3$

(B) $MP = 0$

$\rightarrow L = 7$

(C) $AP_L = 21 + 9L - L^2$

$\rightarrow dAP_L/dL = 9 - 2L = 0$

$\rightarrow L = 4.5$

3. $500 = 10 \times 5 + 5 \times MP_K$

$\rightarrow MP_K = 90$

4. (A) $q = 5A + 10B$

(B) $q = Min(L/2, K)$