1.

К	L	q	APL	АРк	MPL
20	0	0	0	0	0
20	5	20	4	4	4
20	10	43	4.3	2	4.6
20	15	57	3.8	1.33	2.8
20	20	67	3.35	1	2
20	25	75	3	0.8	1.6

2.

(A)
$$\frac{MPL}{dL} = 18-6L = 0 \Rightarrow L = 3$$
 ; L>3 時, MPL開始遞減

(B) $\frac{da}{dL} = 2I + 18L - 3L^2 = 0 \Rightarrow (-3L + 2I)(L + 1) = 0 \Rightarrow L = 9$; L>7 時, TP達最大

(4) $\frac{dAPL}{dL} = 9 - 2L = 0 \Rightarrow L = 4.5$; L>4.5 時, APL開始遞減

3.

$$L = |0, K = 5, MPL = \alpha = 5, Q = 500$$

$$|0 \alpha + 5 \beta = 500 | \alpha = 5 \text{ ($\alpha = 5 ($$

4.

(A)
$$Q = 5A + 10B$$

(B) $Q = min(2A, B)$