

3/1 個經 HW

② 生產函數 $q = 21L + 9L^2 - L^3$

(A) $MPL = 21 + 18L - 3L^2 \Rightarrow dMPL/dL = 18 - 6L, L = 3$

(B) $MPL = 21 + 18L - 3L^2 = 0, L = 7$

(C) $APL = 21 + 9L - L^2 \Rightarrow dAPL/dL = 9 - 2L = 0, L = 4.5$

④

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

(B) $q = \min(L/2, K)$

①

K	L	q	APL	MPK	MPL
20	0	0	0	0	0
20	5	20	4	1	4
20	10	40	4.0	2.15	1.3
20	15	57	3.8	2.85	-0.5
20	20	67	3.35	3.35	-0.45
20	25	75	3	3.75	-0.35