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①  $APL = \frac{Q}{L}$   $APK = Q/K$   $MPL = \Delta Q / \Delta L$

K	L	Q	APL	APK	MPL
20	0	0	0	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	2.35	2
20	25	75	3	3.75	1.6

②  $Q = 21L + 9L^2 - L^3$

$21 + 18L - 3L^2 \Rightarrow 7L(-L+7)(L+1) \Rightarrow L = -1, +7$

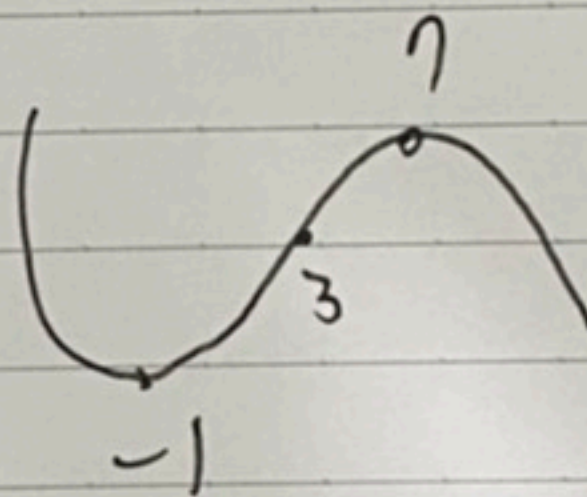
$7 + 6L - L^2 - 1$

$1.8 - 6L \Rightarrow L = 3$

(A) 7

(B) 7

(C) 3



③  $L = 10$

$K = 5$

$MPL = 5$

$Q = 500$

$MPK = 2.5$

$\frac{MPL}{L} = \frac{MPK}{K}$

$\Rightarrow MPK = 2.5$

④ (A)  $5A + 10/3 = 4$

(B)  $L = 2$

$K = 1$