

Date / /

Content:

①

K	L	q	APL	APL	MP _L
20	0	0	0	0	0
20	5	20	4	1	4
20	10	40	4	2.15	$\frac{20}{5}$
20	15	50	3.8	2.85	$\frac{10}{5}$
20	20	60	3.35	3.35	2
20	25	75	3	3.75	$\frac{2}{5}$

$$APL = \frac{q}{L}$$

$$MP_L = \frac{dq}{dL}$$

2

$$(A) q = 2L + qL^2 - L^3$$

$$APL = 2 + qL - L^2$$

$$MP_L = 2 + 2qL - 3L^2$$

$$(A) 2 + 2qL - 3L^2 = 0$$

$$-6L^2 + 18 = 0$$

$$L = 3 \neq$$

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

$$L^2 - 6L - 7 = 0$$

$$(L+1)(L-7) = 0$$

$$L = -1 \text{ or } 7$$

$$(C) 2L + qL - L^2 = 2 + 18L - 3L^2$$

$$2L^2 - 18L = 0$$

$$L(2L - 9) = 0$$

$$L = 0 \text{ or } \frac{9}{2} \quad L = \frac{9}{2} \neq$$

$$3 MP_L = 5$$

$$q = 500$$

$$q = f(L, K) \quad 500 = f(10, 5)$$

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

$$(B) q = \min\left(\frac{L}{2}, K\right)$$