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MPV	4	4.3	9.8	2.85	3.75
MPK	1	2.15	2.85	3.35	3.75
MPL	4	4.6	2.8	2	1.5

Q2  
(a)  $MPL = \frac{dQ}{dL} = -3L^2 + 18L + 21$

$\therefore L=3$ , MPL 有最大值.  $L > 3$  时 开始递减.

(b)  $TP = Q = 4L + 9L^2 - L^3$

$\therefore MPL = 0$ ,  $TP \Rightarrow -3L^2 + 18L - 21 = 0$  求最大值.

$\therefore L > 7$  时, TP 最大.

(c)  $MP = MP$  时 MPL 最大. 而 后 开始递减.

$\therefore -3L^2 + 18L + 21 = 21 + 9L - L^2$

$\Rightarrow 9L = 2L^2 \Rightarrow L = 4.5$

$\therefore L = 4.5$ ,  $MPL$  最大值 = 10.5

$\therefore L = 4.5$ ,  $MPL = 10.5$ ,  $TP = 50$ ,  $MPK = ?$

Q3:  $L=10$ ,  $K=5$ ,  $MPL=5$

$\therefore MPL = \frac{dQ}{dL} = 5 \Rightarrow Q = 50$

$\therefore MPK = \frac{dQ}{dK} = 10.5$

Q4:

(a)  $Q = 75LH$ ,  $Q = 5LH$

(b)  $Q = 10H$  ( $L, K$ )