

week 3

$$5.0 \text{ } MP_L = \frac{1}{2} L^{-\frac{1}{2}} K^{\frac{1}{2}}$$

$$MP_K = \frac{1}{2} K^{-\frac{1}{2}} \cdot L^{\frac{1}{2}}$$

$$MP_L = \frac{MP_L}{MP_K} = \frac{K}{L}$$

$$6 = \frac{\frac{1}{2} L^{-\frac{1}{2}} K^{\frac{1}{2}}}{\frac{1}{2} K^{-\frac{1}{2}} L^{\frac{1}{2}}} \times \frac{MP_L}{MP_K} = \frac{K}{L}$$

$$\Rightarrow 1 \times \frac{K}{L} = 1$$

$$\textcircled{1} MP_L = 1$$

$$MP_K = 2$$

$$MP_L = \frac{1}{2} L^{-\frac{1}{2}} K^{\frac{1}{2}} = 1$$
$$6 - 0 \times \frac{1}{2} = \infty$$

$$8. \textcircled{1} R (MP_L) = 200$$

$$\Rightarrow 3(nK) + 2(nL) = 200$$

$$\Rightarrow n(3K + 2L) = 200$$

$$\textcircled{2} MP_L = 2$$

$$MP_K = 3 \rightarrow \text{不變}$$

$$\textcircled{3} \frac{MP_L}{MP_K} = \frac{2}{3} \rightarrow \text{不變}$$