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5. (a) $MRTS = \frac{K}{L}$ $\sigma = \frac{KL}{KL} = 1$ (b) $MRTS = 2$ $\frac{KL}{2} = \infty$

8. (1) V

(2) $MRTS = \frac{MRK}{MRL} = \frac{2}{3}$

(3) $\times \frac{\frac{K}{L}}{\frac{2}{3}} = \infty$

(9) (a) $\lambda (1L^\alpha + \lambda k^\alpha)^B \Rightarrow$ 递增

(b) $\lambda \ln q = \lambda 5 + 0.5\lambda \ln L + 0.2\lambda \ln k \Rightarrow$ 固定

(c) $\lambda q \{ \min \{ \lambda a_L, \lambda b_k \} \}^\alpha$

$\Rightarrow \lambda^\alpha \{ \min a_L, b_k \}^\alpha \Rightarrow$ 递减