

5.

$$(a) MRTS = \frac{K}{L}$$

$$\sigma = \frac{K/L}{K/L} = 1$$

$$(b) MRTS = 2$$

$$\frac{K/L}{2} = \infty$$

8.

1. 0

$$2. MRTS = \frac{MPK}{MPL} = \frac{2}{3}$$

$$3. X \quad \frac{K/L}{3/2} = \infty$$

9.

$$(A) \lambda q < (\lambda L^\alpha + \lambda K^\alpha)^\beta \rightarrow \text{规模递增}$$

$$(B) \lambda \ln q = \lambda 5 + 0.5 \lambda \ln L + 0.2 \lambda \ln K \rightarrow \text{固定}$$

$$(C) \lambda q \quad \{\text{Min} \{ \lambda a L, \lambda b K \} \}^\alpha$$

$$\lambda^\alpha \{\text{Min} \{ a L, b K \} \}^\alpha \rightarrow \text{规模递减}$$