

Date

NO.

8.

生产函数	$g = 5LK$ $MP_L = 5K$ $MP_K = 5L$	$g = 2L + 3K$ $MP_L = 2$ $MP_K = 3$	$g = \min\{L, K\}$	$g = (0.2L^{-0.5} + 0.8K^{-0.5})^{-2}$
边际产量			X	
边际技术替代率	$\frac{K}{L}$	$\frac{2}{3}$	$1, 0, \infty$	
规模报酬	IRTS	CRIS	CRIS	
$\frac{MP_L}{AP_L}$ 产量弹性	$EL = 1$ $EK = 1$	$EL = \frac{2L}{2L+3K}$ $EK = \frac{3K}{2L+3K}$	X	
$EL + EK$ 生产力弹性	2	1	1	
替代弹性	1	$\infty$	0	

5.

$$F(K, L) = K^{\frac{1}{2}} L^{\frac{1}{2}}$$

$$F(K, L) = 2K + L$$

$$MRTS = \frac{K}{L}$$

$$MRTS = \frac{1}{2}$$

$$\text{替代弹性} = \frac{\frac{dK}{K}}{\frac{dL}{L}} = \frac{\frac{dMRTS}{MRTS}}{\frac{dL}{L}} = \frac{\frac{d \left( \frac{K}{L} \right)}{\frac{K}{L}}}{\frac{dL}{L}} = \frac{\frac{dK}{K} - \frac{dL}{L}}{\frac{dL}{L}} = \frac{\frac{dK}{K}}{\frac{dL}{L}} - 1$$

$$\text{替代弹性} = \frac{\frac{dK}{K}}{\frac{dL}{L} MRTS} \quad \text{固定常数}$$

→  $\infty$

9.

(1) &amp; (3) 正确

(2) 不正确