

$$MRS = \frac{\frac{\frac{1}{2}x^{\frac{1}{2}}y^{\frac{1}{2}}}{\frac{1}{2}x^{\frac{1}{2}}y^{-\frac{1}{2}}}}{\frac{1}{2}x^{-\frac{1}{2}}y^{\frac{1}{2}}} = \frac{P_x}{P_y}, \quad MRT = -\frac{dy}{dx} = \frac{400}{100}$$

$$\text{set } x + 400y = 1200 \quad \text{if } x = y$$

$$\textcircled{a} \quad 800x = 1200$$

$$x = 1.5$$

$$y = 10$$

$$\text{at } 1.5 \text{ h } \frac{1}{2} \text{ h } \frac{1}{2} \text{ h}$$

$$10 \text{ h } \frac{1}{2} \text{ h } \frac{1}{2} \text{ h}$$

$$\textcircled{b} \quad \frac{5}{7}x = 1.5$$

$$x = 1.75$$

$$y = 7.2$$

$$\text{at } 1.75 \text{ h } \frac{1}{2} \text{ h } \frac{1}{2} \text{ h}$$

$$\frac{1}{2} \text{ h } 11.8 \text{ h}$$

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如需借用目標
個人證件過