

4.4

$$e^{\frac{x}{y}} = 7x - y$$

$$e^{\frac{x}{y}} \left\{ \frac{1 \cdot y - x \cdot \frac{dy}{dx}}{y^2} \right\} = 7 - \frac{dy}{dx}$$

$$e^{\frac{x}{y}} \cdot \frac{1}{y} - 7 = \left(e^{\frac{x}{y}} \cdot \frac{x}{y^2} - 1 \right) \frac{dy}{dx}$$

$$\frac{dy}{dx} = \frac{e^{\frac{x}{y}} \cdot \frac{1}{y} - 7}{e^{\frac{x}{y}} \cdot \frac{x}{y^2} - 1}$$