

$$y = e^{Cx}. \quad C = \frac{\ln y}{x}. \quad 0 = \left( \frac{\ln y}{x} \right)' = \frac{(\ln y)'x - \ln y}{x^2} = \frac{\frac{y'}{y}x - \ln y}{x^2}. \quad y' = \frac{y \ln y}{x}$$