Derivatives of Logarithm Exercises

Exercise 1.)
$$\frac{1}{dx} \ln(\partial x) = \frac{1}{x}$$

 $f(u) = \ln u$ $\frac{1}{dx} \cdot \frac{du}{dx} = \frac{1}{u} \cdot \partial = \frac{1}{2} \cdot \partial = \frac{1}{x}$
 $u(x) = \partial x$ $\frac{1}{dx} \cdot \frac{dx}{dx} = \frac{1}{u} \cdot \partial = \frac{1}{x}$

Exercise 1)
$$\frac{1}{4} \log_{10} x$$

$$\frac{1}{4} \log_{10} x$$

$$\frac{1}{4} (\ln x) = \ln x \cdot \ln x$$

Exercise 4)
$$\frac{d}{dn} 2^{x}$$

$$\frac{d}{dx} (x^{2}) = 2x \int \frac{d}{dx} (2^{x}) = 2^{x} |h| 2$$