

Name:

Sec. 3.6 - Logarithmic functions

Math 251

Find the derivatives of the following functions

1. $y = \ln(e^{-x} + xe^{-x})$

2. $x^y = y^x$

3. $y = \ln(x^2 + y^2)$

4. $y = (\ln(x))^{\cos(x)}$