

M120 Worksheet 4.3 Derivatives of Logarithmic and Exponential Functions

Name \_\_\_\_\_

1) Find  $\frac{dy}{dx}$  and simplify for  $y = \frac{\ln x}{x^2}$ .

2) Find  $f'(x)$  and simplify for  $f(x) = \frac{1 - 2x}{e^x}$ .

3) Find  $f'(x)$  and simplify for  $f(x) = x \ln x - x$ .

Answer Key

Testname: WORKSHEET 4.3 B

1)  $\frac{1 - 2 \ln x}{x^3}$

2)  $\frac{2x - 3}{e^x}$

3)  $\ln x$