Mastery Check

1) Write the logarithmic equation in exponential form.

$$\log \frac{1}{1,000} = -3$$

2) Write the exponential equation in logarithmic form.

$$9^{\frac{3}{2}} = 27$$

3) Evaluate.

$$f(x) = \log_2 x, \quad x = 32$$

4) Simplify.

$$\ln \frac{1}{e}$$