162 Quiz 3 Name_____

1. The inverse of the function $f(x) = e^x$ is the function $f^{-1}(x) =$

2. Rewrite in equivalent logarithmic form:

   a) $10^3 = 1000$

   b) $8^{\frac{4}{3}} = 16$

3. Rewrite in equivalent exponential form:

   a) $\log_5(125) = 3$

   b) $\log(.01) = -2$

4. $\log_3(27) =$

5. $\ln(e^x) =$