Math S-Xab
Worksheet—Solving Logarithmic and Exponential Equations

Summer 2004

1. Solve $e^{3x} = (5/e)^{x+1}$ for x.

2. Solve $3^x \cdot \dfrac{5}{3^{x+1}} = 0$ for x.

3. Solve $\log x - \log(x + 1) = 2$ for x.

4. Solve $\ln \sqrt{x} + \ln x^2 = 1 - 2 \ln x$ for x.

5. Solve $e^x(e^x - 5) = 6$ for x.

6. Solve $2e^{2x} + 6 = 11e^x$ for x.