

MATH 114 - Reading Assignment 23 - Section 4.6 - Spring 2008

State your name for the record _____

1. **True** or **False**: All equations discussed in this section are solvable by algebraic methods.
2. Follow Example 1. Solve for x : $\log_3 4x = \log_3 16$.
3. Follow Example 2. Solve for x : $\log_2 x + \log_2 (x - 3) = 2$. (HINT: There is one extraneous solution.)
4. Follow the alternative solution of Example 4. Solve for x : $5^x = 6$. (Leave your answer in exact form - you do not need to find a decimal equivalent using your calculator.)