

MATH 114 - Reading Assignment 21 - Section 4.4 - Spring 2008

State your name for the record _____

1. Complete the following statement: $y = \log_a x$ if and only if...
2. What is the domain of the function $y = \log_a x$?
3. What is the range of the function $y = \log_a x$?
4. What is the x -intercept of the function $y = \log_a x$?
5. What is the vertical asymptote of the function $y = \log_a x$?
6. A logarithmic function is increasing if _____ and decreasing if _____.
7. What symbol do we use instead of writing $y = \log_e x$? (In other words, what symbol do we use when the base of the logarithm is the number e ?) _____
8. What symbol do we use when the base of the logarithm is 10? _____
9. Follow Example 8. Solve for x : $\log_4(3x + 10) = 2$