Name _____   Date _____Period _____

Integrated Math 3A Homework Due Friday

- **5-57.** Using the idea behind the Ancient Puzzle you studied today, what is the value of b in each equation below? Explain your reasoning. Homework Help ✎

    a. $\log_b 243 = 5$ b. $\log_b 0.001 = -3$

- **5-59.** Sketch the graph of $y + 3 = 2^x$. Homework Help ✎

    a. What are the domain and range of this function?

    b. Does this function have a line of symmetry? If so, what is it?

    c. What are the x- and y-intercepts?

    d. Sketch the inverse of this function on the same set of axes. What are the domain, range, and x- and y-intercepts of the inverse?