HW #36: SHOW ALL WORK on a separate piece of paper. These problems should be completed without a calculator.

Evaluate each expression

1. 2. 3. 4.

5. 6. 7. 8.

9. 10. 11. 12.

Expand each expression

13. 14. 15.

Condense each expression

16. 17.

18.

Find an equation for the inverse of each function

19. 20.

Solve each equation

21. 22. 23.

24. 25.

Graph each equation. State the domain, range, and asymptote

26. 27.

28. 29.

WHAT TO STUDY FOR CH 7 TEST

7.1/7.2

* Be able to recognize exponential growth vs. exponential decay. Know the models for each.
* Graph exponential growth and decay and state asymptote, domain, and range.
* Know the compound interest formula and how to find account balance, amount deposited, or time when given the other pieces of information.
* Be able to do problems like #33 on Pg 483.
* Know how to do increase in value and decrease in value problems. Word problems from 7.1 & 7.2.

7.3

* Simplify expressions involving e (Pg 495)
* Graph all functions with e as a base.
* Do problems involving continuous compounding
* Word problems from pg 497

7.4

* Be able to evaluate logs without a calculator
* Know the definition of log
* Be able to find inverse of log and exponential equations
* Be able to graph all log functions & give domain, range, and asymptote.

7.5

* Know how to expand logs
* Know how to condense logs
* Know how to use the change of base formula.
* Know how to approximate expressions (Pg 510 #7 – 14)

7.6

* Know how to solve exponential equations
* Know how to solve all of the different types of log equations
* Know what an extraneous solution means & why logs might have one.
* Words Problems #56 – 58