I. Some Basic Properties:

1.
$$b^{x} = b^{y} \Leftrightarrow \underline{x} = \underline{y}$$

2. $a^{x} = b^{x} \Leftrightarrow \underline{a} = \underline{b}$
3. $\log_{b}(x) = \log_{b}(y) \Leftrightarrow \underline{x} = \underline{y}$
4. $\log_{a}(x) = \log_{b}(x) \Leftrightarrow \underline{a} = \underline{b}$

II. Examples (pp.726-727): Exercises #2-40(even), 42-98(even)

HW: pp.726-727 / Exercises #1-97(every other odd)

Final Exam – Wednesday, Dec. 18th (9:40-11:40 a.m.) Chapters 1-9 (9.1-9.5 only): 20 problems or less study previous Exams I-IV & quizzes 1-18...

Graph a linear function (straight line) & inequalities Slope of a line (m), parallel vs perpendicular Applications: %, uniform motion (d = r×t), variation Function notation, f(x); Domain & Range Factoring & polynomial^{*} inequalities Graph quadratic/exponential/logarithmic functions Complex numbers: arithmetic & std. (a + bi) form Simplify/perform arithmetic operations, and solve equations involving linear, polynomial^{*}, rational, radical, exponential and/or logarithmic expressions

^{*}note: quadratic expressions/equations are polynomial expressions/equations (whose degree = 2)