MA 135: College Algebra (Fall 2016)
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Week 13 Notes

How to use this handout—This handout contains a skeleton of the notes that we will study in class this week. I've typed out definitions and theorems so that you don't have to exasperatedly copy what I'm writing, and populated these pages with a number of examples. My expectation of you is that you will fill in all of the details, ideas, *etc*, that I've left out.

Section 5.5—Exponential and Logarithmic Equations

1. One-to-One and Inverse Properties, revisited

2. Example Solve for x: $7^x = 12$

3. Example Solve for x: $2^{3x+1} = 3^{4-x}$. Round your answer to the nearest thousandth.

4. Example Solve for x: $\log_3(x+6) - \log_3(x+2) = \log_3 x$.

5. Example Solve for x: $\log(3x+2) + \log(x-1) = 1$.

6. Example Solve for x: $e^{2x} - 4e^x + 3 = 0$.