

## Honors Pre-Calculus Semester 1 Final Study Guide

The following problems will help you prepare for the final. They are all located in your Pre-Calculus text book. Many Problems are ODD. This means the answers are in the back of the book. You can also come in to look at solutions and ask questions to have me work out a problem with you.

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- Intercepts, Symmetry, and Graphing #'s 17-21
- Sketching the Graph of a Circle #'s 23-27
- Finding an Equation of a Line #'s 35-37
- Finding Parallel and Perpendicular Lines # 39-40
- Testing for Functions Represented Algebraically #'s 43-47
- Finding the Domain of a Function # 49-50
- Vertical Line Test For Functions # 55-56
- Finding the Zeros of a Function #'s 57-66
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- Even, Odd, or Neither? # 67-68
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- Finding Domains of Functions and Composite Functions # 87-88
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- Applying the Horizontal Line Test # 93-94
- Finding and Analyzing Inverse Functions #95-96
- Restricting the Domain #97-98

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- Using Standard Form to Graph a Parabola #'s 3-8
- Sketching a Transformation of a Monomial Function #11-12
- Applying the Leading Coefficient Test #'s 13-16
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- Evaluating the Natural Exponential Function #'s 21-23
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- Solving a Simple Equation #'s 81-85
- Solving an Exponential Equation #'s 87-89
- Solving a Logarithmic Equation #'s 93-97
- Matching a Function with its Graph 107-111

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- Solve a System of Equations Graphically #'s 13-18
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