**Inversely Yours**

I. Last Week’s Key Points
- Graphs, domain, range, intercepts, and intervals of increase, decrease, and constant of the basic functions (constant, linear, identity, squaring, cubing, square root, absolute value, reciprocal)
- Vertical and horizontal shifts, reflections about the x- and y-axis, vertical stretch and shrink of functions
- A function is **even** iff \( f(-x) = f(x) \) for all \( x \) in the domain of \( f \).
- A function is **odd** iff \( f(-x) = -f(x) \) for all \( x \) in the domain of \( f \).
- The **standard** form of a quadratic with the vertex \((h,k)\) is \( f(x) = a(x-h)^2 + k \), where \( a \neq 0 \).
- Find the vertex, extrema value, domain, range, axis of symmetry, and zeros of a quadratic function.
- Applications of extreme values
- Added, subtracted, multiplied, and divided functions and found the domain

II. This Week
- Function composition: \( (f \circ g)(x) = f(g(x)) \)
- A function is **one-to-one** iff \( f(x_1) = f(x_2) \) implies \( x_1 = x_2 \).
- If a function is a one-to-one function, then it has an inverse function \( f^{-1} \).
- Polynomial functions: definition, degree, leading term, leading coefficient, constant term, end behavior

III. Resources and Tips
- Have you started studying for your second exam?
- Are you attending all of your lectures and labs?
- Have you worked all the Week-In-Review problems up to date?
- Are you going to Math 150 help sessions to get homework assistance?
- Have you gone to your instructor’s office hours with questions?
- Are you reading the class notes and skimming the electronic text before each class?
- Are you taking complete notes during lecture?
- Did you know that WebAssign can send you a reminder about upcoming assignment due dates? Just click on Notifications in the upper right of your screen and set your preferences.
- Are you asking questions in class? Start by asking one question!
- Week-In-Review times are ______________________ ______________________ ________.  
- Help Session times are __________________________ ____________________________.

IV. Quotes and Jokes

Old mathematicians never die; they just lose some of their functions.