List of Possible Ch. 3 Test Items

Items from Chapter 3

* Re-write equations to make them solvable. Then solve them *(Good notation and steps expected)*
* Simplify rational expressions (using different types of factoring AND the property of 1)
	+ Be able to state the valuables of the variable that make the expression undefined
* Multiply and Divide Rational Expressions (only factors can cancel!, you don't need a common denominator)
* Add and Subtract Rational Expressions (*you do need a common denominator*)
* Graph a rational function on your calculator
* Describe any points of discontinuities (including locations of holes and aysmptotes)
* State the domain and ranges

On-going Items from Previous Chapters

* Write equations of circles, *in standard form* $(x-h)^{2}+(y-k)^{2}=r^{2}$, or give details about a circle

 given its equation. AND convert an equation a of circle in non-standard form to standard form.

* Write a function that will transform a parent function so that it will slide, vertically stretch or shrink, etc.
* Solve Systems of *linear* equations algebraically, keeping answers exact. (substitution, elimination, etc).
* Solve quadratic equations (by factoring or the quadratic formula), *remember they have to be set equal to zero first.*
* Convert a parabola in standard form to graphing form using Completing the Square or using x-intercepts.
* Simplify expressions with radicals and exponents *(including negative exponents)*
* Do quick factoring using the difference of Squares shortcut.

**NOT** on this test (but may be on future quizzes)

* Solving quadratic equations by completing the square
* Solving inequalities and absolute value inequalities

Ch. 3 Test Conditions

* Everyone can use the reference sheet
* Or you can also have one additional piece of 8.5 by 11 inch paper, with notes (score capped at 80%)
* You may have completely worked out examples, and in addition you can have a list of steps needed for other various situations.
* You can write on both sides.
* You may have all of the exponent rule written down and a few worked examples with exponents, fractional exponents and negative exponents as well.
* You can list all of the parent functions and show the shape of the parent function.
* Your name and period must be on it on the top edge and you need to bring this up to the desk when you turn in your test.
* Tests should be taken in one sitting. If you like to work slow (which is not a bad thing), you can arrange ahead of time to come in the morning to start part of the test.