Algebra 2 Trig Honors Name: _____

Section R1 and Chapter 1 Learning Targets

My goal for this chapter is to earn _____ on the Chapter test.

Steps I will take to achieve this goal include:

1) _____

2) _____

Before the test, complete columns two and three by:

- Circle the descriptor that best describes how you feel about your mastery of each objective.
  - ☺ = I know I can correctly teach this topic to another student if asked.
  - 😐 = I know the topic and can work through the problem but am unsure whether I am correct.
  - ☹ = I do not know how to start or complete the problem. I need to ask for help!
- Note: IF IT IS NOT A ☺, YOU PROBABLY ARE NOT READY FOR THE QUIZ/TEST!!!!!!!

Learning Target	Example	Self-Assessment	Test Performance
Section R.1 – Algebra and Real Numbers			
a) Know the definitions of the subsets of real numbers	Pg. 2 Table 1	☺ 😐 ☹	
b) Identify numbers into the subsets of the real numbers	Pg. 10 #32	☺ 😐 ☹	
c) Perform arithmetic using rational numbers	Pg. 9 #16	☺ 😐 ☹	
d) Know and apply the basic properties of the real numbers	Pg. 6, Pg. 10 #18	☺ 😐 ☹	
Section 1.1 – Linear Equations and Applications			
a) Understand basic terms: standard form, domain, solution sets, roots, identity equations, conditional and equivalent equations.	Pg. 44 and Pg. 45	☺ 😐 ☹	
b) Solve linear equations in one variable	Pg. 54 #19	☺ 😐 ☹	
c) Solve literal equations for a specific variable. (ie. Solve an equation with more than one variable)	Pg. 54 #43	☺ 😐 ☹	
d) Solve application problems including number and geometric problems, distance-rate-time and mixture problems by using a linear equation	Pg. 55 #73, 76, 79	☺ 😐 ☹	
Section 1.2– Linear Inequalities			
a) Transform inequalities to and from interval notation	Pg. 63 #11	☺ 😐 ☹	
b) Find union and intersection of intervals	Pg. 63 #43, 45	☺ 😐 ☹	
c) Know the inequality properties	Pg. 60 Theorem 1	☺ 😐 ☹	
d) Solve linear inequalities including double inequalities	Pg. 63 #39	☺ 😐 ☹	
e) Solve application problems using linear inequalities	Pg. 64 #91	☺ 😐 ☹	

Learning Targets	Example	Self-Assessment	Test Performance
Section 1.3 – Absolute Value in Equations and Inequalities			
a) Understand absolute value geometry by relating absolute value and distance	Pg. 73 #29	☺ 😐 ☹	
b) Solve absolute value equations	Pg. 73 #69	☺ 😐 ☹	
c) Solve absolute value inequalities	Pg. 73 #43	☺ 😐 ☹	
d) Use absolute value to solve radical inequalities	Pg. 73 #59	☺ 😐 ☹	
Section 1.4 – Complex Numbers			
a) Know terms involving complex numbers	Pg. 82 #5, 6	☺ 😐 ☹	
b) Know how to add, subtract, multiply and divide complex numbers	Pg. 82 #35, Pg. 83 #41	☺ 😐 ☹	
c) Know how to simplify the powers of i.	Pg. 83 #87	☺ 😐 ☹	
d) Identify the conjugate of a complex number	Pg. 82 #9	☺ 😐 ☹	
e) Transform radicals into complex numbers	Pg. 83 #61	☺ 😐 ☹	
f) Solve equations containing complex numbers	Pg. 83 #81	☺ 😐 ☹	
Section 1.5 – Quadratic Equations and Applications			
a) Know the standard form of a quadratic equation	Pg. 84	☺ 😐 ☹	
b) Solve quadratic equations by factoring and the Zero Product Property	Pg. 94 #11	☺ 😐 ☹	
c) Solve quadratic equations by the Square Root Property	Pg. 94 #17	☺ 😐 ☹	
d) Solve quadratic equations by the Quadratic Formula	Pg. 94 #29	☺ 😐 ☹	
e) Find the discriminant of a quadratic equation	Pg. 94 #29	☺ 😐 ☹	
f) Use the discriminant to describe the solutions of the quadratic equation without solving	Pg. 94 #31	☺ 😐 ☹	
g) Solve application problems using quadratic equations	Pg. 95 #83	☺ 😐 ☹	
Section 1.6 – Additional Equation-Solving Techniques			
a) Solve equations involving radicals	Pg. 103 #61	☺ 😐 ☹	
b) Solve absolute value equations by squaring both sides	Pg. 103 #23	☺ 😐 ☹	
c) Solve a higher degree equation by using substitution to transform equation into a quadratic equation	Pg. 103 #53	☺ 😐 ☹	
d) Solve application problems using these additional techniques	Pg. 103 #75	☺ 😐 ☹	

After the test, complete the last column before answering the questions below.

1) If you reached your goal that you set for yourself, what helped you do so? If you did not reach your goal, why not?

2) Look at the test performance column and the self-assessment column. Does your performance on the test align to your self-assessment? If not, please explain why.