This is only a summary of what you need to know. Be sure to study all homework problems.
Graphs:

- Need to be able to draw graph of $y=\tan \theta, y=\cot \theta, y=\sec \theta, \& y=\csc \theta$
- Notice: Being able to graph secant and cosecant requires knowing how to graph sine and cosine.
- Be able to identify the amplitude, period, phase shift, domain, and range given an equation
- Be able to graph transformed function such as 1.6 \#15-38

Inverse Trigonometric Functions:

- Be able to evaluate the inverse trigonometric functions such as 1.7 \#5-18
- Be able to evaluate the composition of trigonometric and inverse trigonometric functions such as 1.7 \#47-73
- Be able to identify the domain and range of inverse trigonometric functions.

Applications and models:

- Be able to solve real life problems involving right triangles and directional bearings such as 1.8 \#19-40
- Be able to solve right triangles such as 1.8 \#5-12

Memorize and be able to use the following identities:

- Pythagorean identities:
- Reciprocal identities:
- Quotient Identities:
- Cofunction Identities and Even/Odd identities

Using fundamental Identities:

- Be able to recognize and write the fundamental trig identities.
- Be able to use the fundamental trig identities to evaluate trig functions, simplify trig expressions, and rewrite trigonometric expressions such as 2.1 \#7-50
- Be able to simplify a trigonometric expression by using a substitution such as in 2.1 \#53-58
- Be able to verify trigonometric identities such as 2.2 \#9-50

Solving Trigonometric Equations:

- Be able to use standard algebraic techniques and inverse trigonometric functions to solve trigonometric equations. Such as 2.3 \#5-17
- Be able to solve trig equations of quadratic type. Such as 2.3 \#18-35 (mixed with above)
- Be able to solve trig equations involving multiple angles. Such as 2.3 \#39-44

Be sure to practice homework problems and quiz problems.

