**HONORS GEOMETRY**

**CHAPTER 8**

Trigonometry
Trigonometric ratio
Sine
Cosine
Tangent
Angle of elevation
Angle of depression
Law of sines
Law of cosines
Vector
Magnitude

Direction
Resultant
Component form
Proof of similar right triangles
Rt triangle geometric means thms Proof of the Pythagorean theorem
Common Pythagorean triples
Converse of the Pythagorean theorem
Pythagorean inequality theorems
Special right triangles
45 45 right triangle
30 60 90 right triangle
Inverse sine
Inverse cosine
Inverse tangent

**CHAPTER 9**

line of reflection
reflection is the x- or y-axis
reflections in the line y = x
translation
translation vector
center of rotation

angle of rotation
composition of transformations
glide reflection
composition of two reflections
regular tessellation
symmetry
line symmetry
line of symmetry
rotational symmetry
center of symmetry
dilation
Scale Factor
Dilations in the Coordinate Plane

**Chapter 10**

circle
center
radius
chord
diameter
concentric circles
circumference
pi
inscribed
circumscribed
central angle
arc
minor arc
major arc
semicircle
congruent arcs
adjacent arcs
arc length
Arc Addition
Theorem 10.2
Theorem 10.3
Theorem 10.4
Theorem 10.5
inscribed angle
intercepted arc
inscribed angle theorem
Theorem 10.6
Theorem 10.7
Theorem 10.8
tangent
point of tangency
common tangent
Theorem 10.9
Theorem 10.10
Theorem 10.11
secant
Theorem 10.12
Theorem 10.13
Theorem 10.14
Circle and angle relationships
chord segment
secant segment
external secant segment
tangent segment
Theorem 10.15
Theorem 10.16
Theorem 10.17
compound locus
Equation of a Circle