**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  
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point of tangency  
common tangent  
Theorem 10.9  
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Theorem 10.11  
secant  
Theorem 10.12  
Theorem 10.13  
Theorem 10.14  
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secant segment  
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Theorem 10.15  
Theorem 10.16  
Theorem 10.17  
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Equation of a Circle