Honors Geometry Section 10.8

Day 1:

Chord-Chord Power Theorem





• Secant-Secant Power Theorem



Honors Geometry Notes 10.8 – Day 1













Example 1: Solve for x.







 $\chi^2 = 2(2+16)$ $\chi^{2} = 30$

Example 3: Solve for x.



3(3+x) = 4(4+8)9+3x = 48

$$\frac{3x=39}{X=13}$$

Example 4: Tangent segment PT measures 8 cm. The radius of the circle is 6 cm. Find the distance from P to the circle.



Example 1: A triangle with angles in the ratio of 5:6:7 is inscribed in a circle. At the vertices of the triangle, tangents are drawn to form a circumscribed triangle. Find the angles of the circumscribed triangle.



X=6

10

3.y=9.x 3.y=9.6 y=18 Example 4: Each circle is inscribed in a regular polygon and is circumscribed about another regular polygon. If the length of a side of each outer polygon is 12, find the length of a side of each inner polygon.



