8.5. Honors Geometry

DATE: $\qquad$ 3/5/13
Target 7E. Understand and apply theorems relating proportions in triangles
Angle Bisector Theorem: If a ray bisects an angle of a triangle, then it divides the opposite side into segments that are proportional to the adjacent sides.

Given:

$$
\Delta X Y Z, \bar{Y} X \text { bisects } \angle X Y Z
$$

Diagram:

Prove:

$$
\frac{x w}{w z}=\frac{x y}{y z}
$$

The proof of this theorem was Completed in class after a construction using the Aspire calculator. You may
 wish to read the proof on pg. 352 in your book.

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