Exploring Midsegments With GSP

**Midsegments**

**definition:** A midsegment is a line segment connecting the two midpoints of two sides in a polygon

1. Construct (change labels if necessary)
2. Measure the side by selecting the side and going to “measure” and “length” – display this.
3. Construct the midpoint of line (label this point D) and line (label this point E)
4. Construct the midsegments (see definition above)
5. Measure the Midsegment and display this.
6. With your “select” tool, drag each vertex of the triangle and move them around while watching your measurements
   * Question: How does the midsegments position compare to side ?

How does the length of midsegment compare with side ?

* + Read Theorem 5.1 in lesson 5.1 of your book. How did your answer to these questions compare to the Theorem?