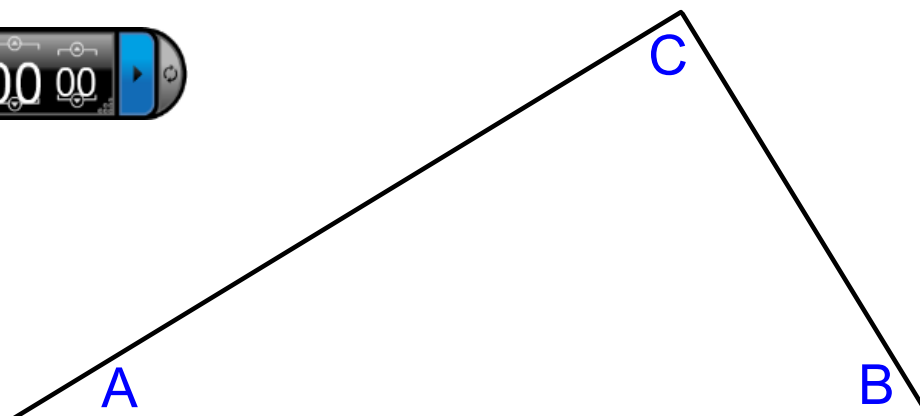


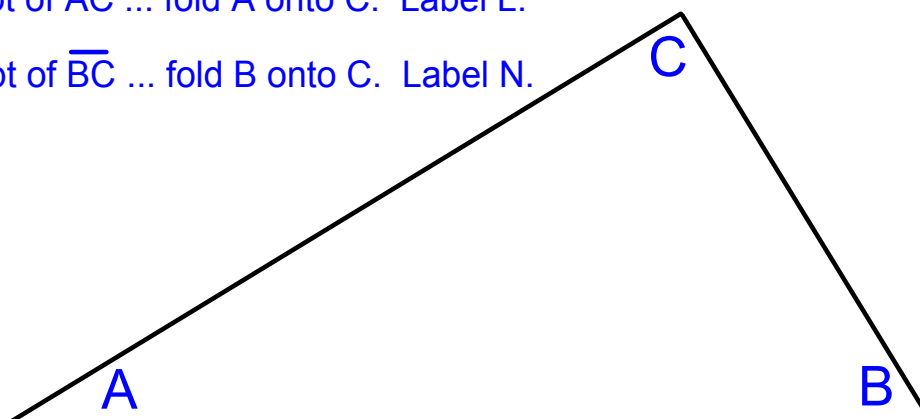
Investigation: Midsegments of Triangles



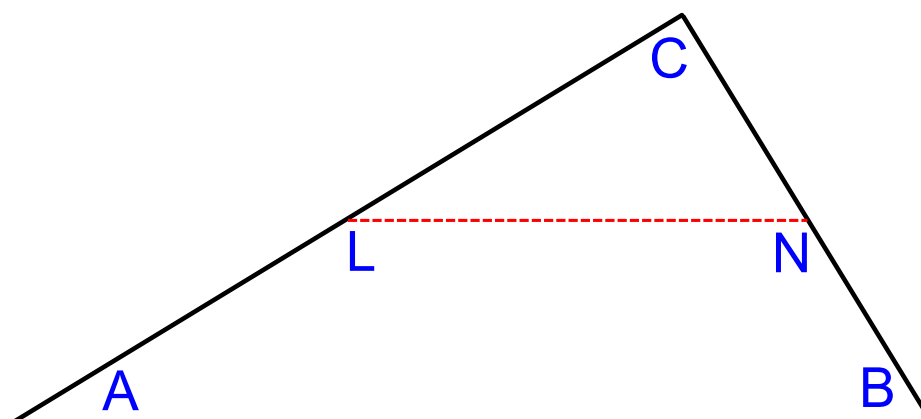
Investigation: Midsegments of Triangles

Find midpt of \overline{AC} ... fold A onto C. Label L.

Find midpt of \overline{BC} ... fold B onto C. Label N.

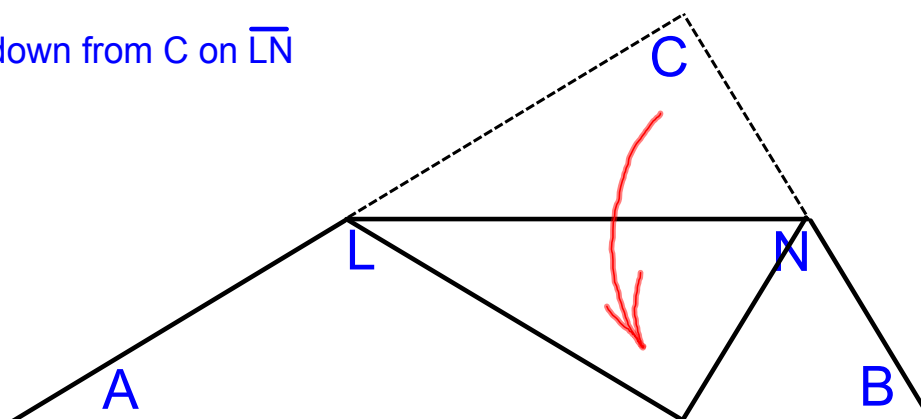


Investigation: Midsegments of Triangles



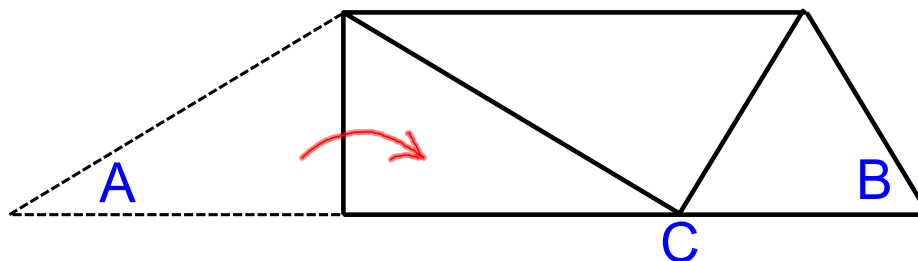
Investigation: Midsegments of Triangles

Fold down from C on \overline{LN}



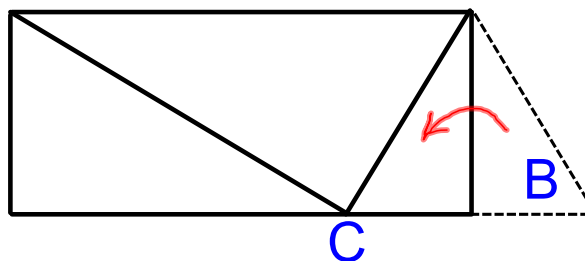
Investigation: Midsegments of Triangles

Fold A onto C.

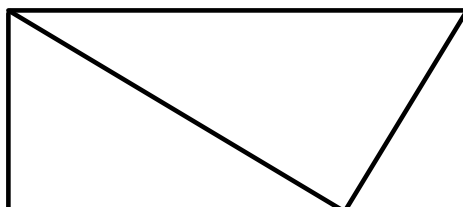


Investigation: Midsegments of Triangles

Fold B onto C.

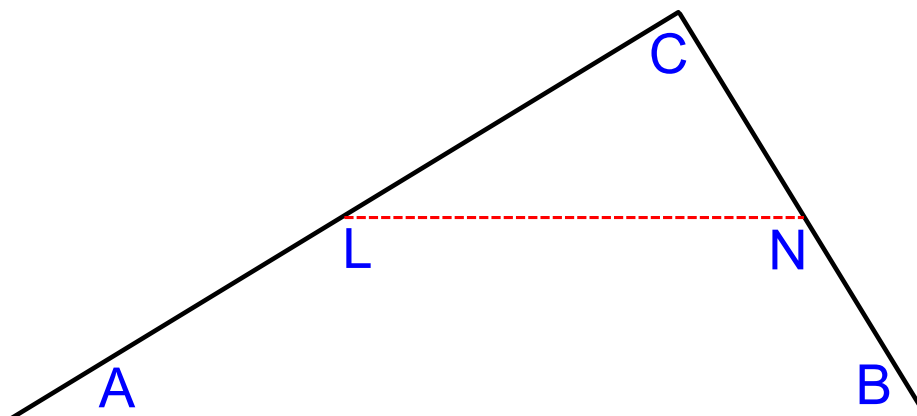


Investigation: Midsegments of Triangles



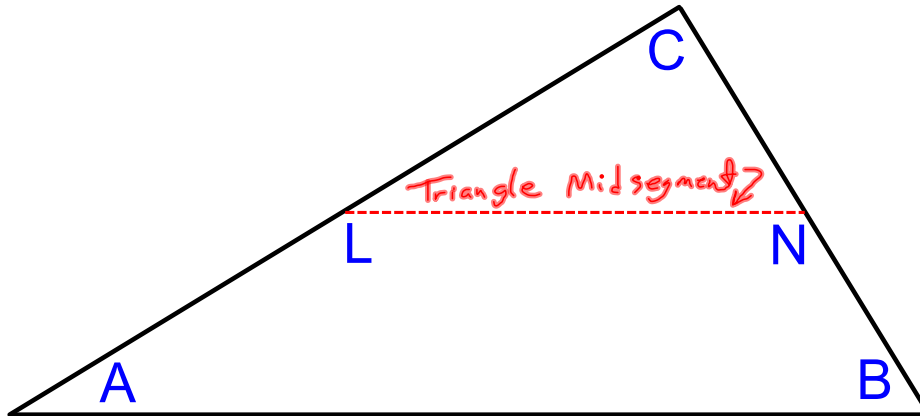
Investigation: Midsegments of Triangles

1. How does LN compare to AB?
2. Make a conjecture about how the segment joining the midpts of 2 sides of a \triangle is related to the 3rd side.



Definition: Triangle Midsegment

Segment connecting the midpts of 2 sides of a Δ .

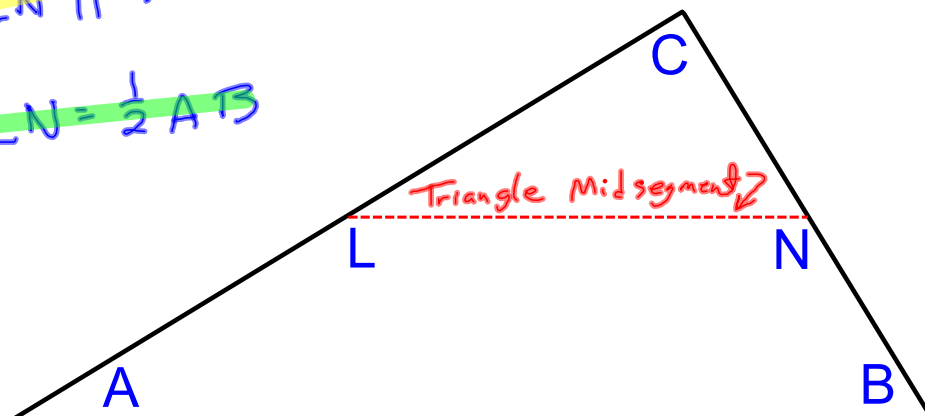


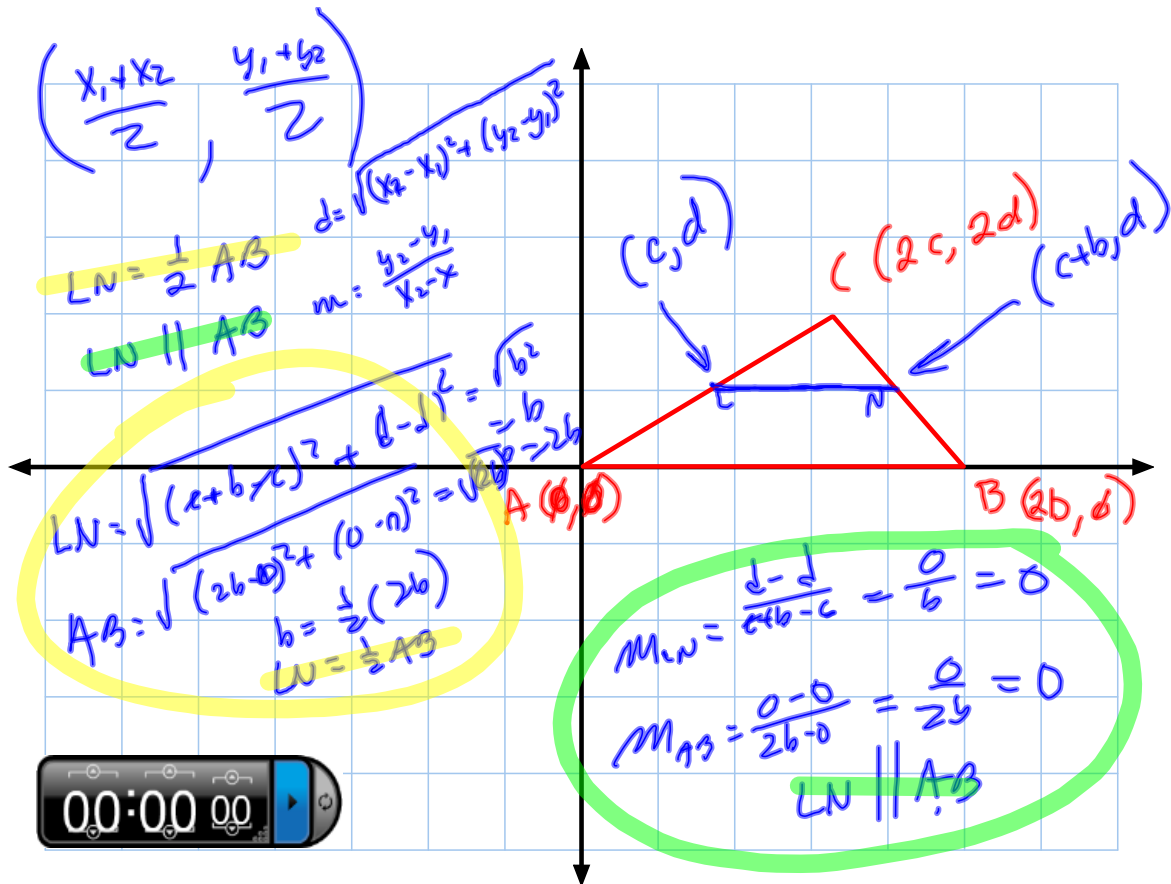
Theorem 5-1: Triangle Midsegment Theorem

Δ midsegment is \parallel to opposite side and $\frac{1}{2}$ its length.

$$LN \parallel AB$$

$$LN = \frac{1}{2} AB$$





L5-1 HW Problems

Pg 246 #1-20,
 22-36,
 40-46 even

Pg 240 #1-3, 6-14