

Menelaus

As you construct and manipulate the geometric objects, record your observations below.

1. Construct triangle $\triangle MEN$.
2. Create point A on side \overline{ME} .
3. Create point L on side \overline{EN} .
4. Create line \overleftrightarrow{AL} .
5. Create line \overleftrightarrow{MN} .
6. Create intersection point U of line \overleftrightarrow{AL} and line \overleftrightarrow{MN} .
(If they do not appear to intersect, drag A or L about until they do.)
7. Measure EA , AM , MU , UN , NL , and LE .
8. Calculate $(EA / AM) * (MU / NU) * (NL / LE)$.
9. Drag E , M , A and L about.

What do you observe?



1. Create midpoint P of side \overline{EM} , midpoint Q of side \overline{MN} , and midpoint R of side \overline{NE} .
2. Use Symmetry to reflect A over P to create point A' , U over Q to create point U' , and L over R to create point L' .

What do you observe?

3. Find an article about Menelaus and read about him.



OBSERVATIONS

