Basaman

- 1. Using the "Polygon Tool", construct triangle ABC.
- 2. Construct the midpoint of AB, name point D. Then construct the midpoint of BC, name point E.
- 3. Construct segment DE.

 \overline{DE} is a MIDSEGMENT, which is the segment between the midpoints of two sides of a triangle.

Part I –

1. Measure the length of \overline{DE} . Measure the length of \overline{AC} .

DE = _____ AC = _____

2. Drag point A or point C to change your triangle and record the new measurements.

DE = _____ AC = _____

DE = _____ AC = _____

3. Compare your results. Make a conjecture...

The length of a midsegment is _____

Part II -

1. Calculate the slopes of \overline{DE} and \overline{AC} .

Need Help???

Slope is on the "Angle" drop-down menu. 1) Select "Slope". 2) Select the line (or segment) for which you would like to find the slope

Slope of DE = _____ Slope of AC = _____

2. Drag point A or point C to change your triangle and observe the new slope values. Think...

What do you notice? What does this mean?

3. Make a conjecture...

The midsegment _____