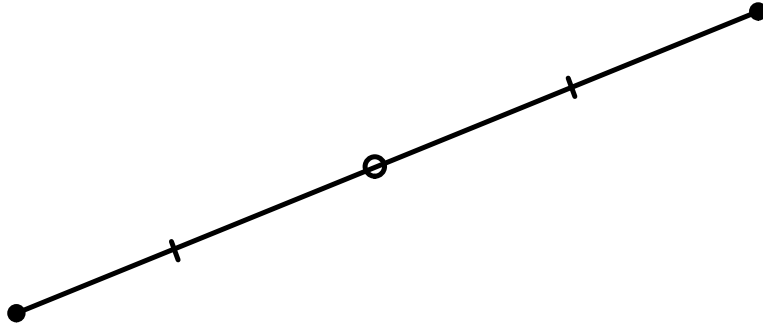


Mid Point

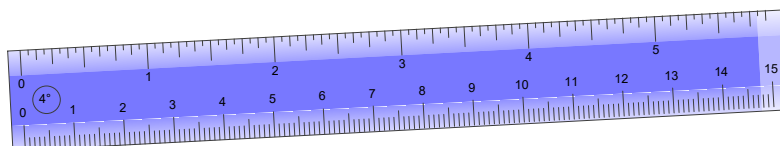
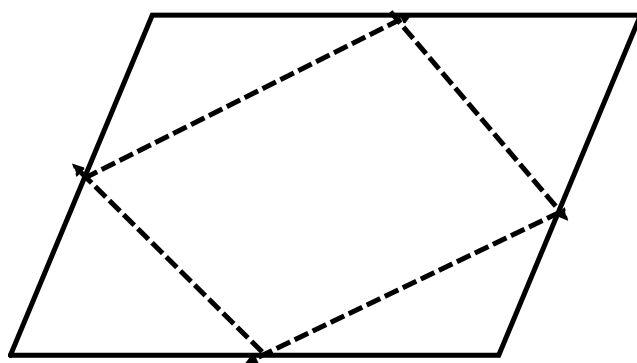
- a point on a line segment that is exactly in the middle



Midsegments

- connect the mid points of each side of a polygon with a line segment

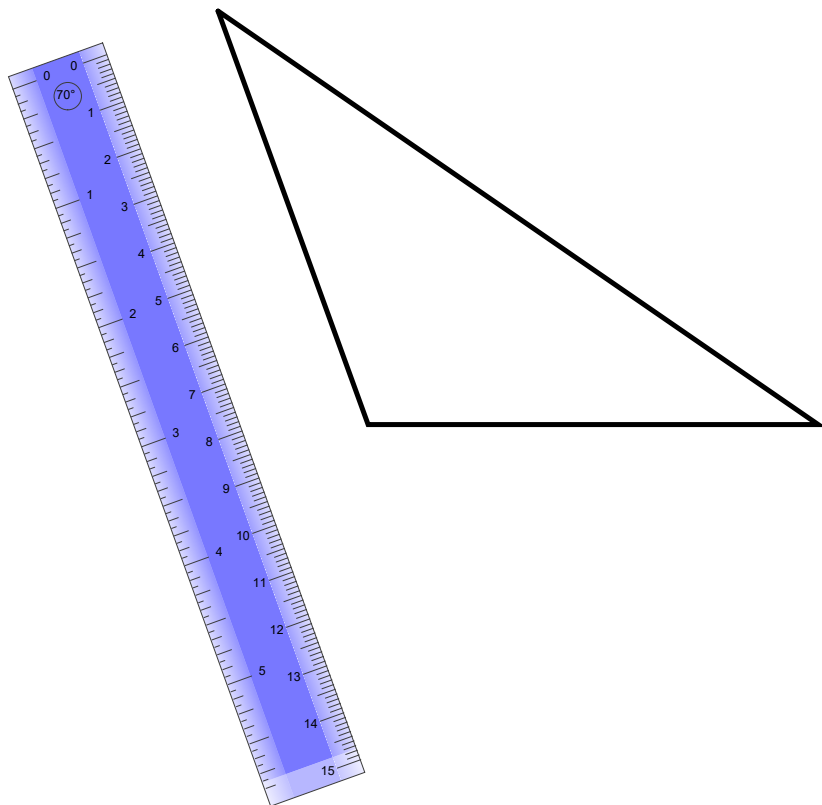
Geometers Sketchpad example



Conjecture - a guess or prediction based on limited evidence

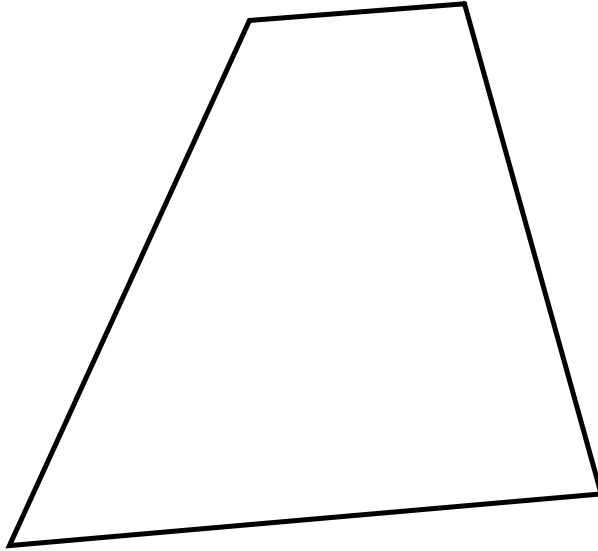
Median

- a line segment connecting the vertex of a triangle to the opposite side mid point



Bimedian

- a line segment connecting the mid points on opposite sides of a quadrilateral



Mathematics

A CENTROID is the geometric center of an object.

A centroid can be found in a triangle by finding where the MEDIANS all intersect.

A centroid in a quadrilateral can be found where the BIMEDIANS intersect.

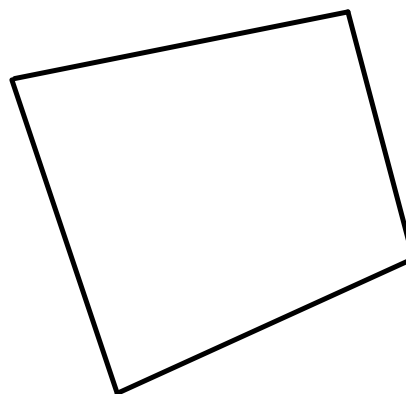
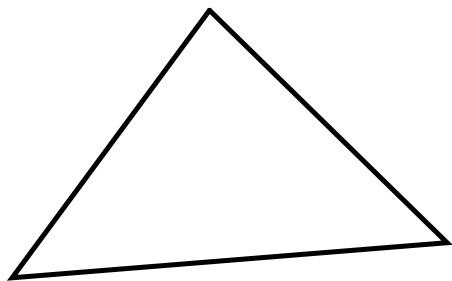
Physics/Science

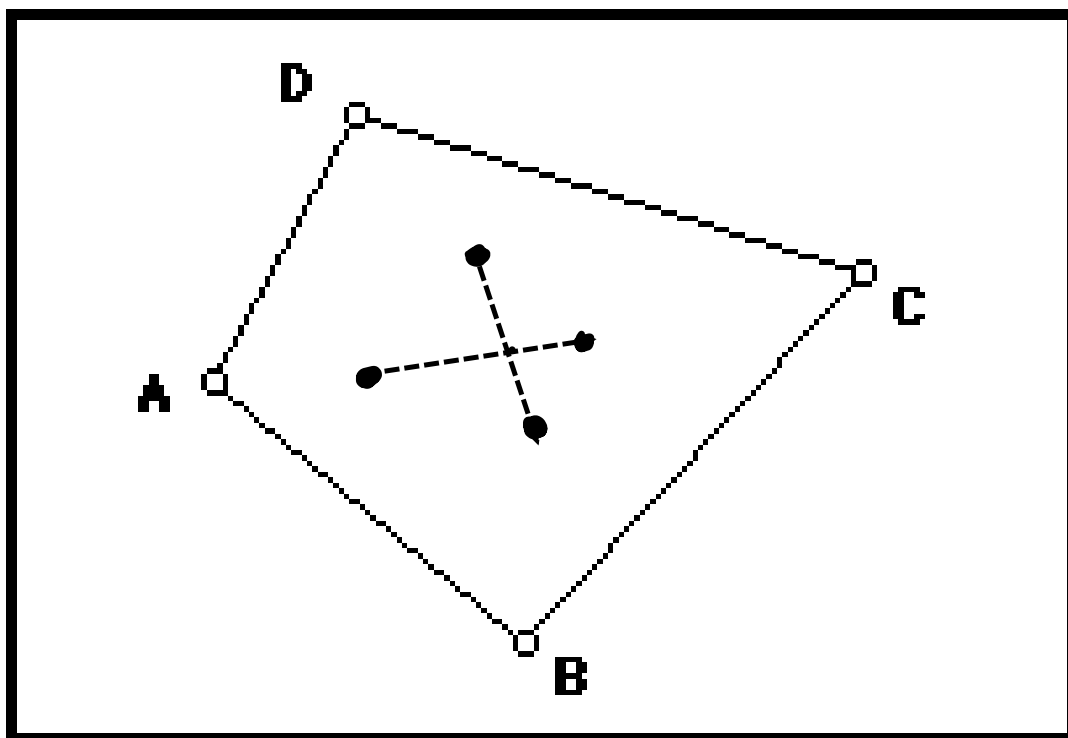
The center of mass (center of gravity) is the same as a centroid for a triangle, but is different for a quadrilateral.

Task - Cut out a small triangle and quadrilateral from the construction paper provided.

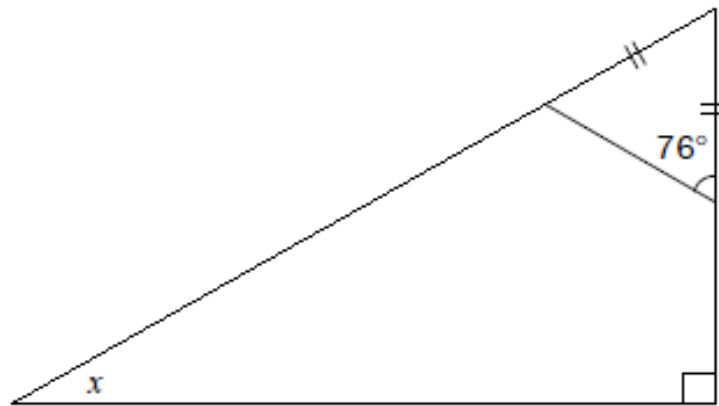
Using a ruler and pencil, determine the Centroid (center of mass) of both shapes.

Test your creation by balancing the paper construction on a nail or finger.





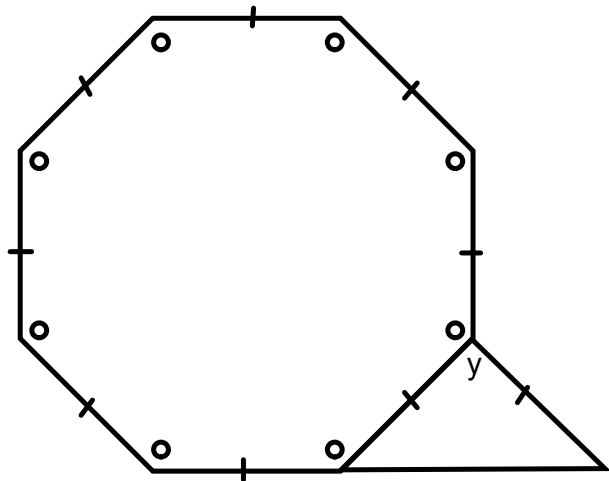
Consider the following diagram.



What is the value of x ?

- a 14°
- b 28°
- c 62°
- d 76°

Find the angle at "y", explain your thought process/solution technique.



Homework - See Task handout

Attachments

quad_midsegs.gsp