



Triangle Sum Theorem

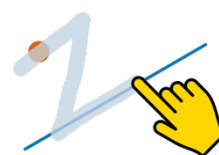
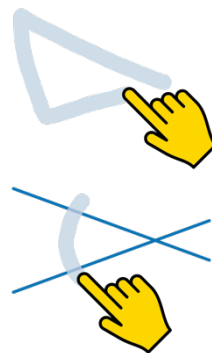
Prerequisites and Objectives

- ▶ Students are familiar with the terms triangle and angle.
- ▶ Students assume by means of a dynamic construction that the sum of the measures of the angles of a triangle is 180° .
- ▶ They prove the triangle sum conjecture by use of alternate interior angles.

sketchometry

The students should know

- ▶ how to draw a triangle,
- ▶ how to tag an angle,
- ▶ how to measure angles and the sum of angles,
Measure >  *Measure* > tap an angle and place the measurement on the board
Measure > *Calculations* >  *Sum* > tap areas or measurements > tap the board at a free spot
- ▶ how to draw a line parallel to a given line segment.



Further Exploration

- ▶ Determine the sum of the interior angles of a quadrilateral.
Hint: Try to use your knowledge about the triangle sum.