

## CCG 2.1.4: Triangle Sum Theorem (Desmos)

Click on the link below for the "Angles in a Triangle."

[Triangle Sum Theorem \(Desmos\)](#)

### 1. Triangle Sum Theorem:

Triangle Angle Sum Theorem eTool

Question: What is the sum of the angles of a triangle? Use this tool to investigate this question. Then prove your result.

Drag the angles to change them. Does the Sum ever change? Why?

Show Parallel lines

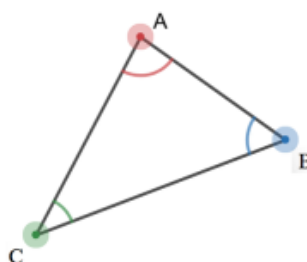
$S_{um} = A + B + C$

$S_{um} = 180$

$\text{round}(A)$  = 83

$\text{round}(B)$  = 56

$\text{round}(C)$  = 41



2. How does "Show Parallel Lines" help when determining the sum of the interior angles of a triangle?

