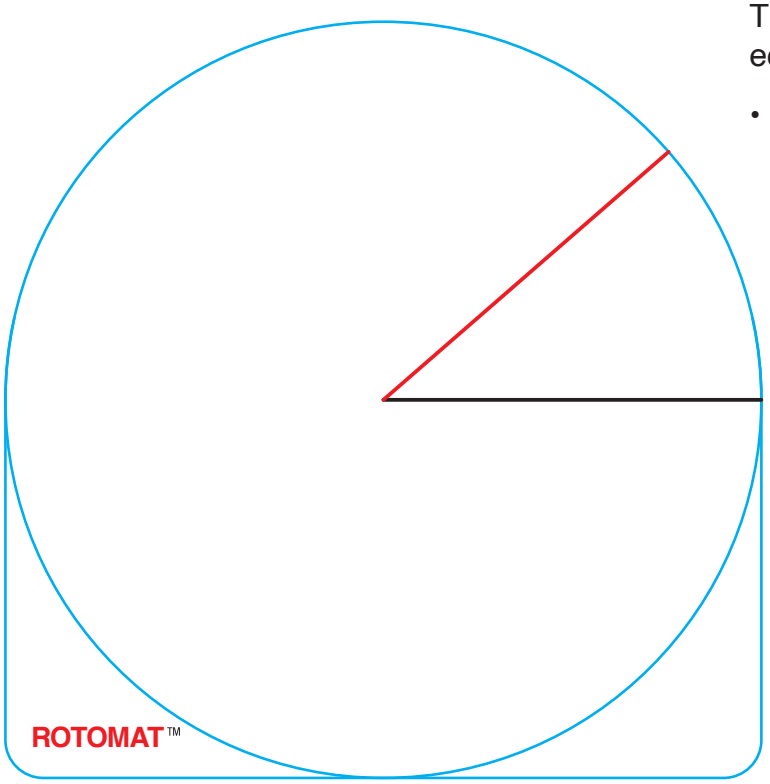
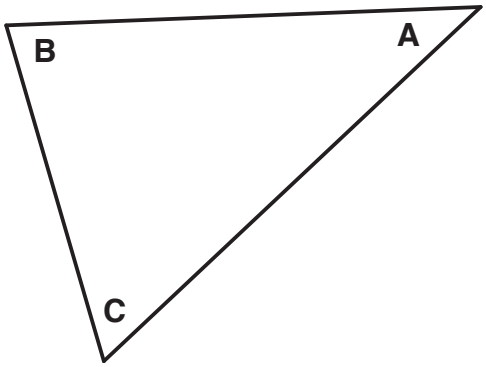
ROTOMAT™ Activity A6.
The Sum of Angles in a Triangle.



The Rotomat in the drawing is set to equal angle A in the triangle.

- Set your Rotomat equal to angle A.



- Now use your Rotomat to measure angle B. To do this, place the red line of your Rotomat along the side of ∠B with both vertices aligned, and the black line of your Rotomat outside the triangle. Now rotate the red line of your Rotomat to the other side of ∠B.
- Do the same with angle C.
- Your Rotomat should now show a single line, which is a straight angle of 180°. Such as ∠DEF. These points are said to be co-linear.



- Rotomat ended up as a straight angle because the internal angles of a triangle in the plane will allways sum to 180°.

Demonstrate this to yourself. Draw any triangle in the panel below and measure its internal angles using your Rotomat using the same method as before. Your Rotomat will always finish set to a straight angle.