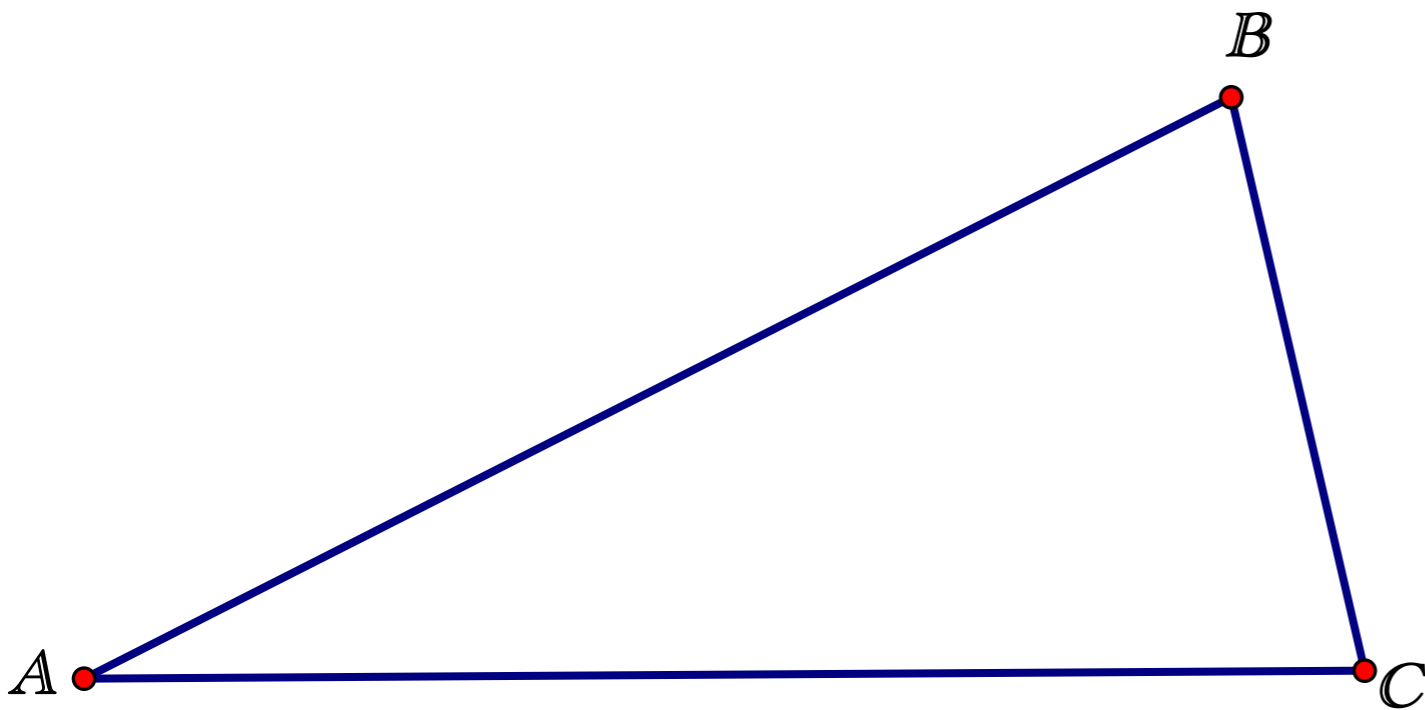


Proving the Interior Angle Sum Theorem (5.6.1)

May 1st, 2018

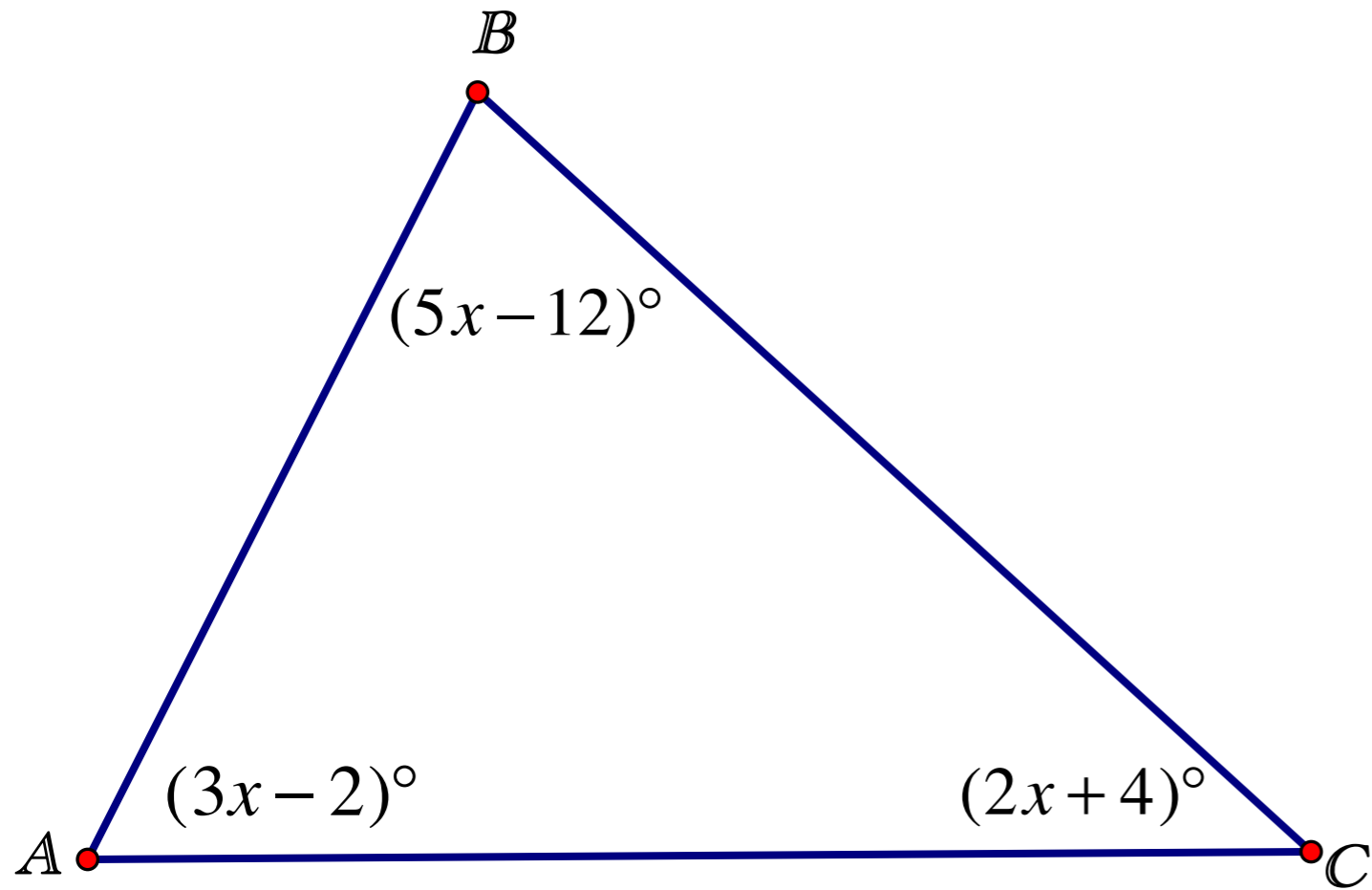
Interior Angle Sum Theorem

The sum of the interior angles of a triangle is 180° .

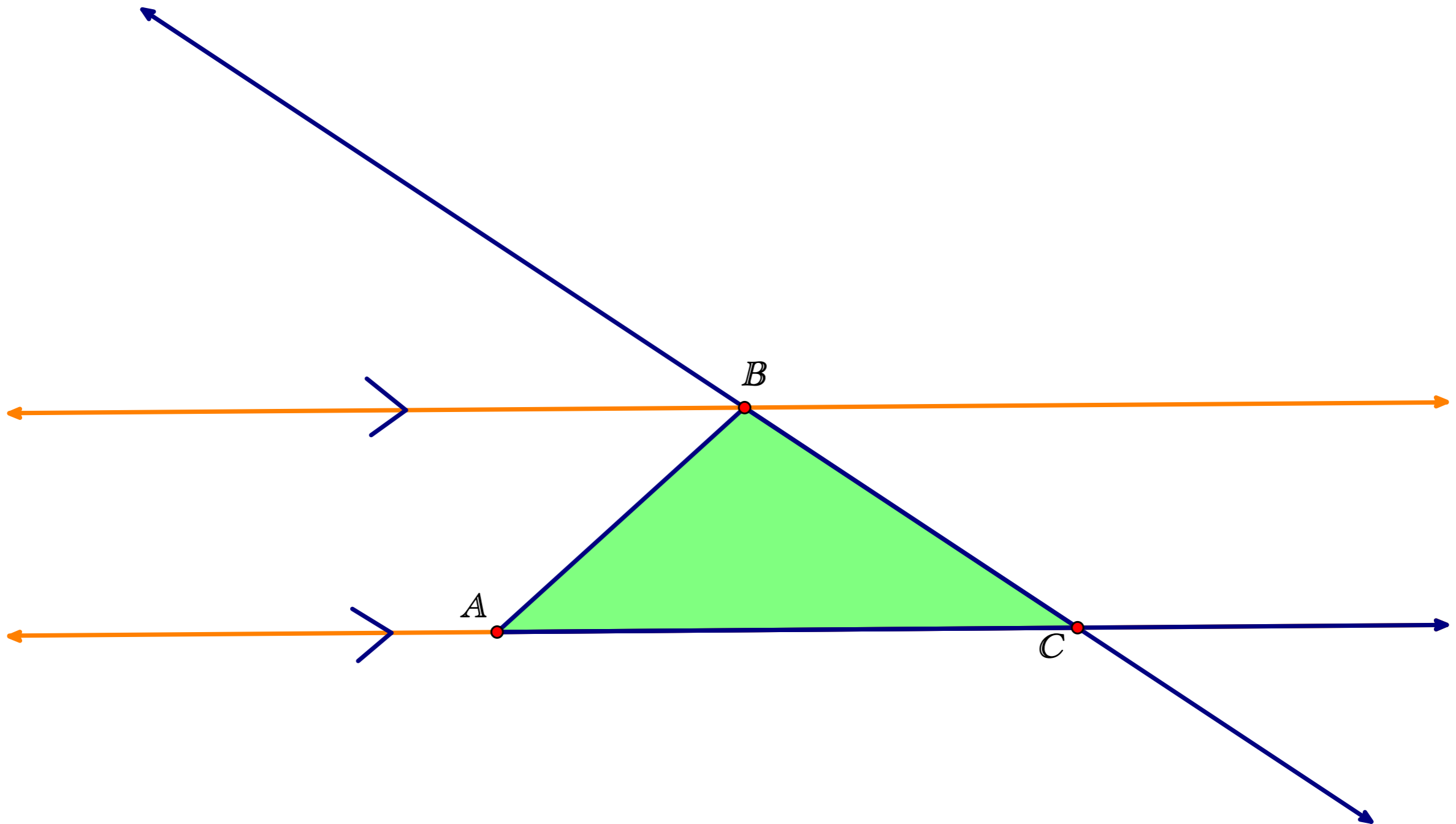


$$m\angle A + m\angle B + m\angle C = 180^\circ$$

Ex. 1: Find the measure of each angle in the given triangle.

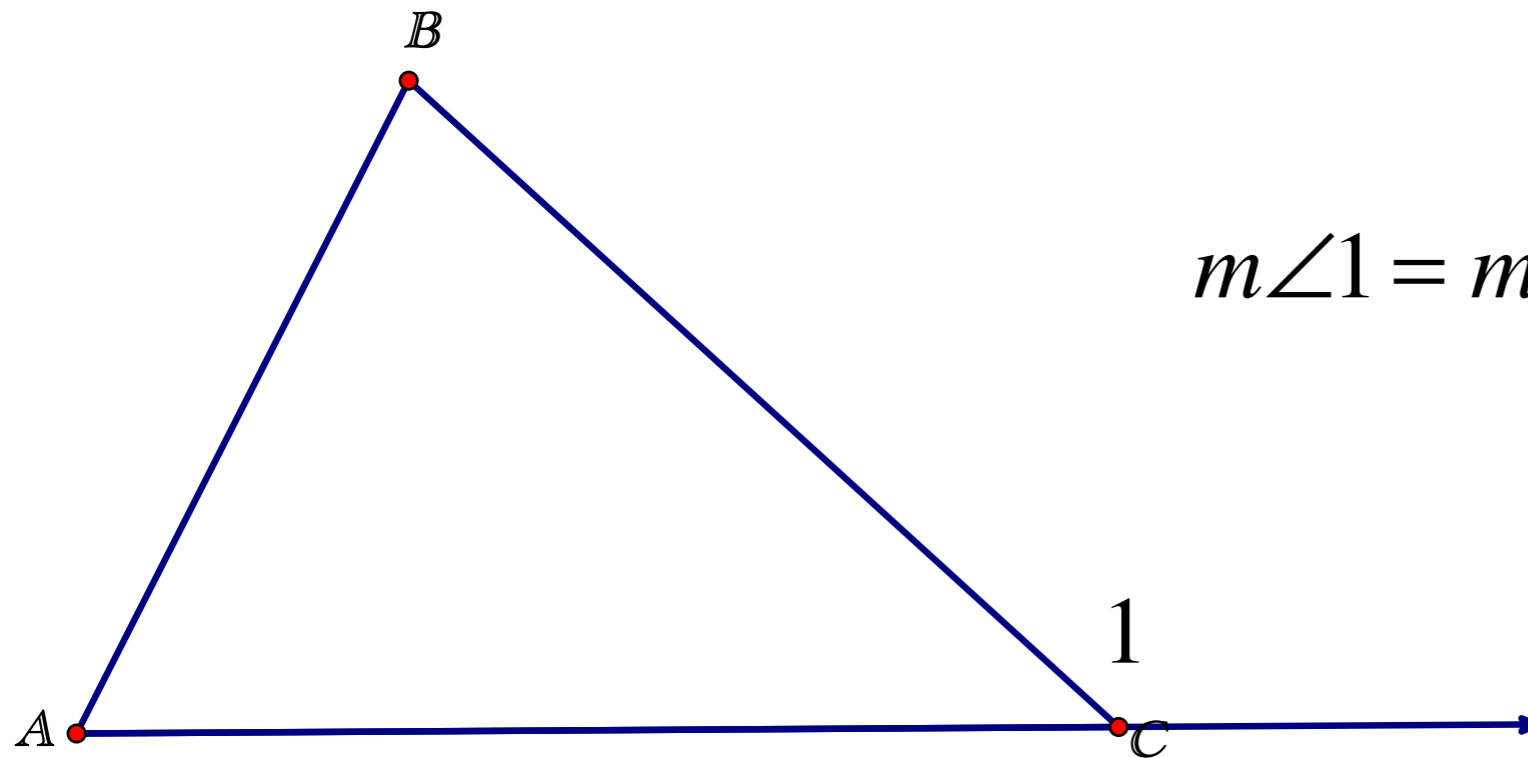


Exterior Angles of a Triangle- Investigation



Exterior Angle Theorem

The measure of an exterior angle of a triangle is equal to the sum of the measures of its two non-adjacent interior angles.



$$m\angle 1 = m\angle A + m\angle B$$

Ex. 2: Find the measure of the exterior angle in the diagram.

