A.5: Triangle Angle Sum Theorem













NC STATE Animated Contrasting Cases in Geometry

A.5: Triangle Angle Sum Theorem

Prove that the interior angles of a triangle sum to 180°.



A.5: Triangle Angle Sum Theorem

1) What are the similarities and differences between Alex and Morgan's methods?







3) a) In Morgan's second step, why does she know that the $m \angle 1 = m \angle 4$ and $m \angle 3 = m \angle 5$?

b) Why was she able to use substitution in the fourth step?

4) What would Alex get if he tried his method on a quadrilateral?



