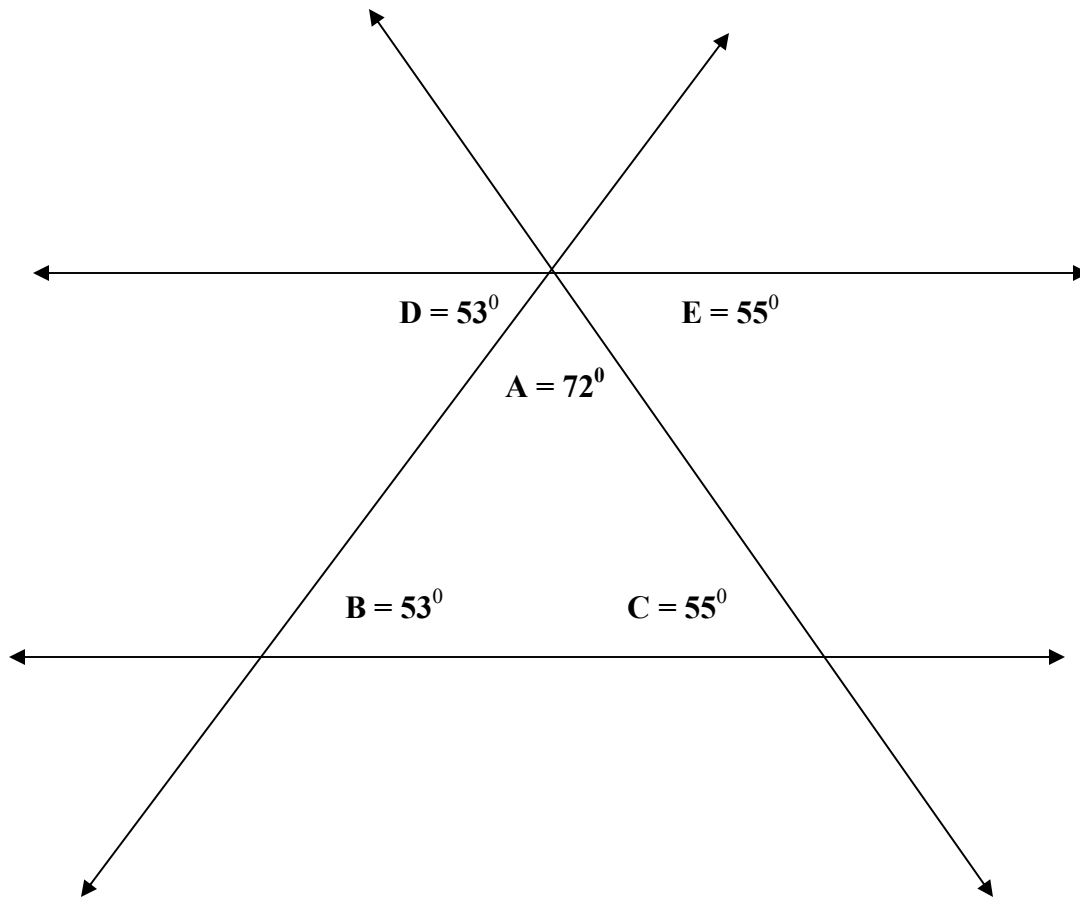


Special Interior Angles for Triangles – Activity C



Using a Protractor, Verify Sum of Angles D,A,E = 180° ! Angles D,A,E are Supplementary!
 Using a Protractor, Verify Angles D & B are Equal & Verify Angles E & C are Equal! **Why?**
 Since Angles D,A,E = 180° & D=B & E=C then Sum of Interior Angles of $\triangle A,B,C = \underline{\hspace{2cm}}$?

The Sum of Angles D,A,E = 180°

Why? Supplementary Angles

Angles D & B are Equal Angles!

Why? Alternate Interior Angles

Angles E & C are Equal Angles!

Why? Alternate Interior Angles

Therefore Angles A,B,C = 180°

Why? By Direct Measurement **but** is it true?

The above Statements would be considered a **Deductive Proof!**

Look up the **Definition** of a **Deductive Proof** & find a specific example!

A **Deductive Proof** is valid reasoning in **all areas of Mathematics!**