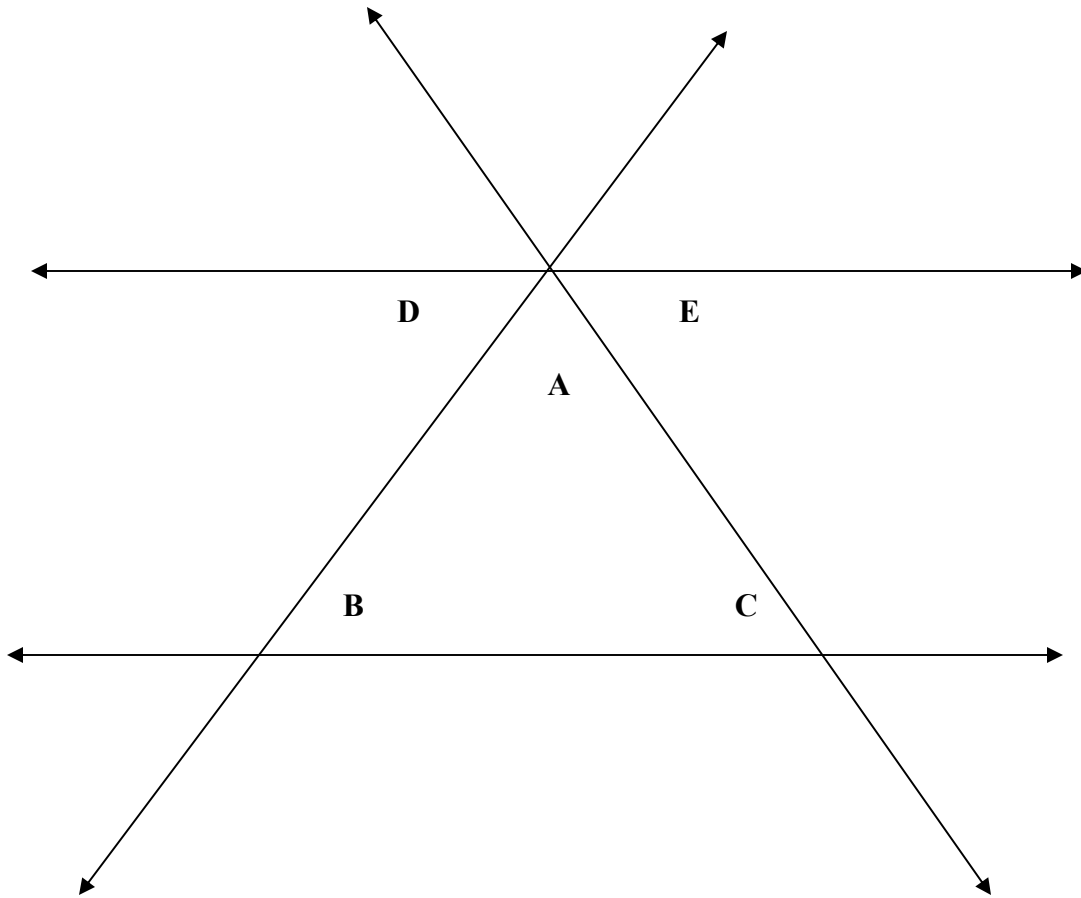


### Special Interior Angles for Triangles – Activity C



Using a Protractor, Verify Sum of Angles D,A,E =  $180^0$ ! Angles D,A,E are called \_\_\_\_\_ angles!  
Using a Protractor, Verify Angles D & B are Equal & Verify Angles E & C are Equal!  
Since Angles D,A,E =  $180^0$  & D=B & E=C then the Sum of Interior Angles of  $\triangle A,B,C =$  \_\_\_\_\_ ?

The Sum of Angles D,A,E =  $180^0$  Why? \_\_\_\_\_

Angles D & B are Equal Angles! Why? \_\_\_\_\_

Angles E & C are Equal Angles! Why? \_\_\_\_\_

Therefore Angles A,B,C =  $180^0$  Why? \_\_\_\_\_

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

Look up **Definition** of a **Deductive Proof** & find an Specific **Example!**

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