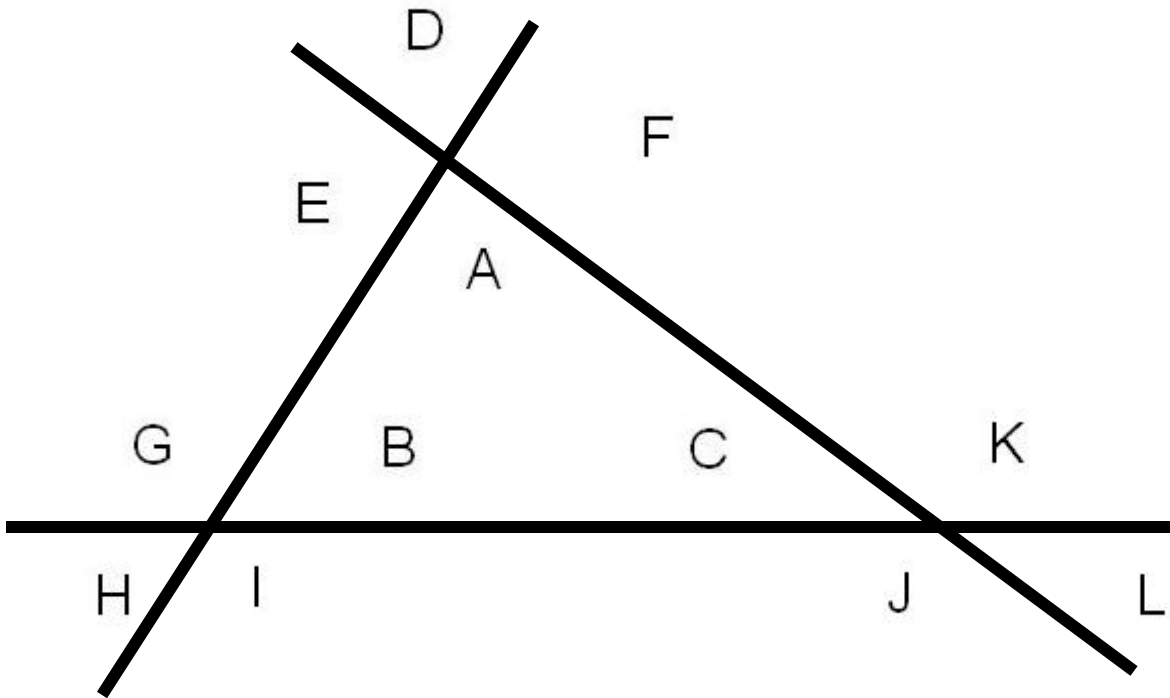# Special Angles related to <u>Interior and Exterior</u> Angles of Geometric Objects

**The <u>Sum of the Interior Angles</u> of any Triangle is 180 Degrees.
Thus the Sum of the Interior Angles $/\_A + /\_B + /\_C = 180^0$**

Angles A & D as well as E & F are Vertical Angles
Angles D & F as well as E & A are Supplementary Angles
Angles F & A as well as D & E are Supplementary Angles

Angles B & H as well as G & I are Vertical Angles
Angles G & B as well as H & I are Supplementary Angles
Angles G & H as well as G & I are Supplementary Angles

Angles C & L as well as K & J are Vertical Angles
Angles J & L as well as C & K are Supplementary Angles
Angles C & J as well as K & L are Supplementary Angles

Let's apply this knowlege of <u>Special Interior and Exterior Angles</u> to a problem!

If $/\_A = 600$ & $/\_K = 1400$ then   determine all of the other Angles.

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