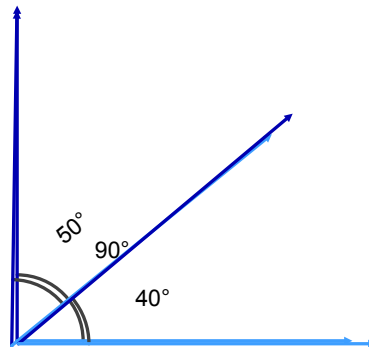
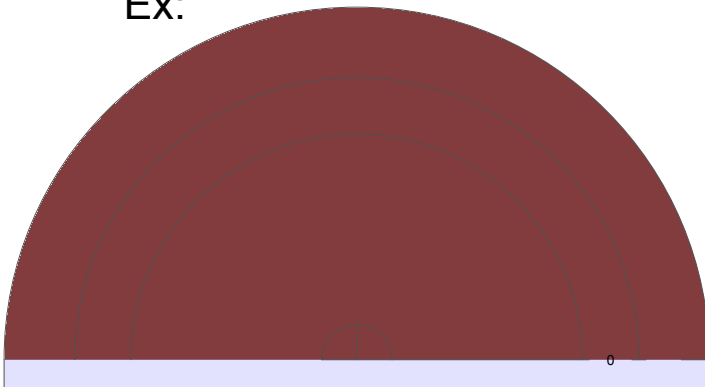


Angle Relationships

Complementary Angles: Two angles whose sum is 90° .

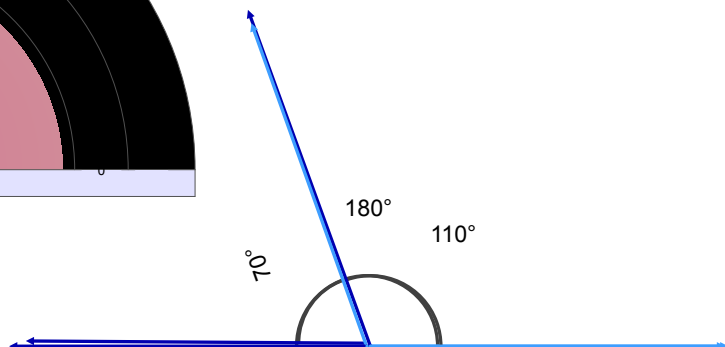
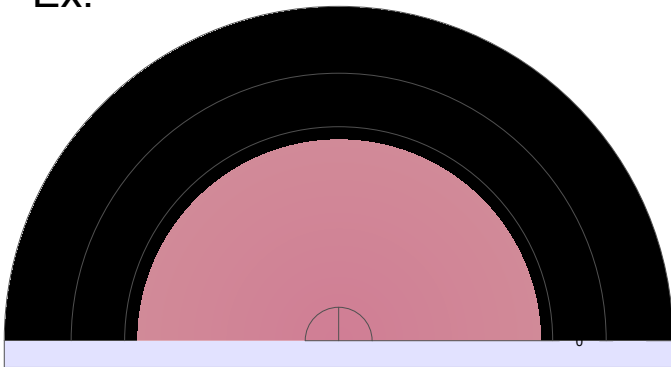
Ex:



$$\text{So, the } m\angle A + m\angle B = 90^\circ$$

Supplementary Angles: Two angles whose sum is 180° .

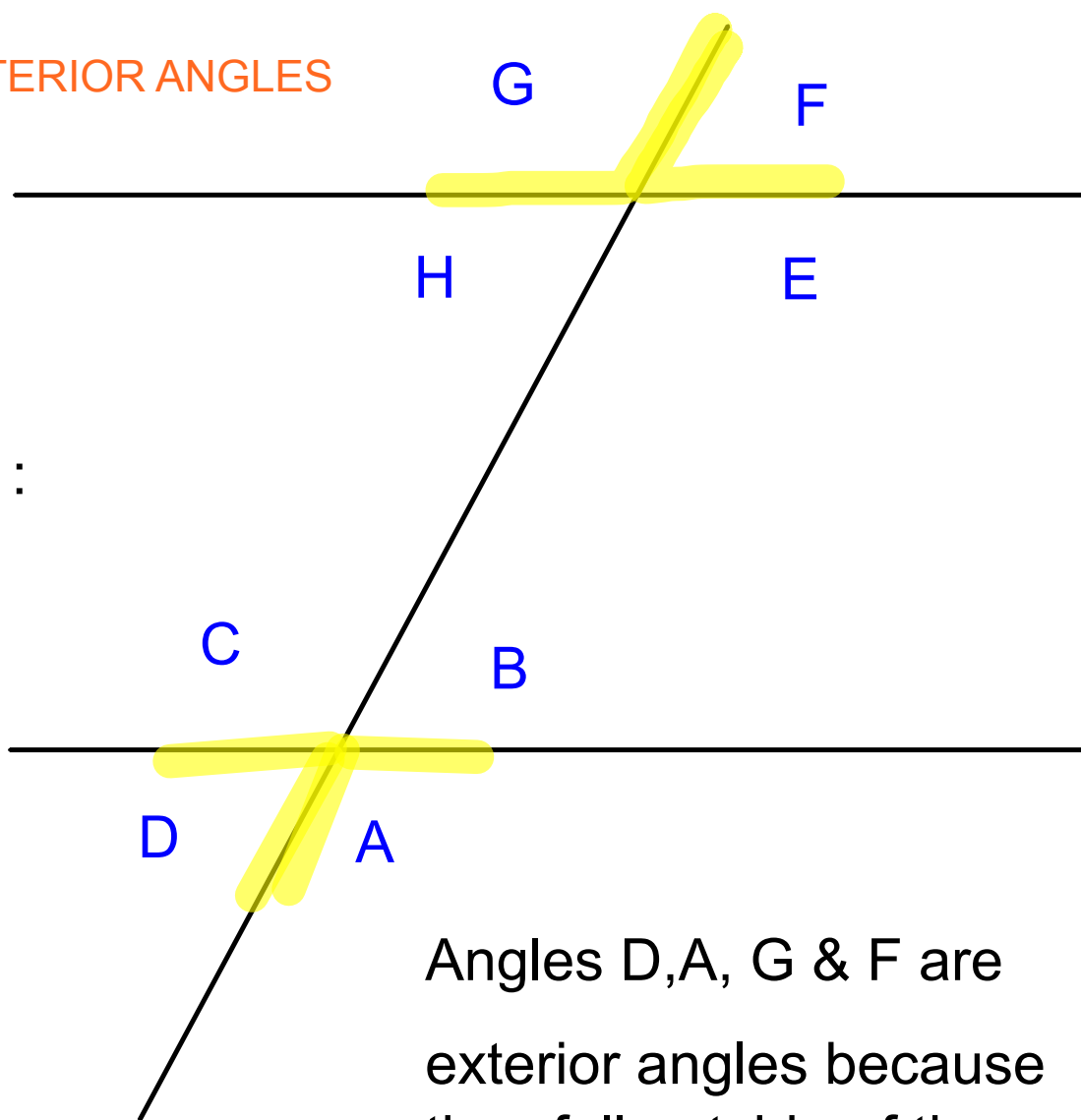
Ex.



$$\text{So the } m\angle A + m\angle B = 180^\circ$$

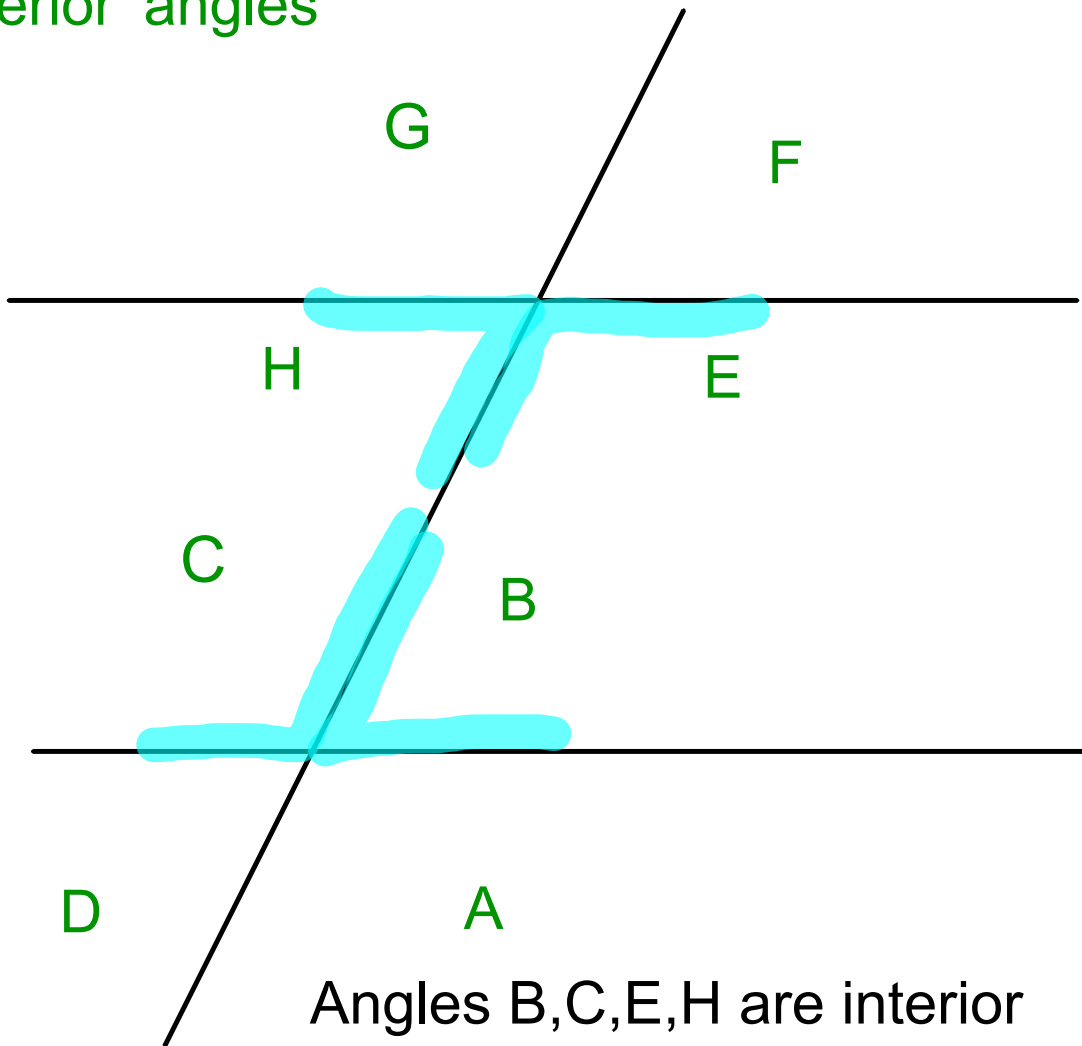
When 2 **parallel** lines are cut by a transversal you have several angles to compare and identify.

EXTERIOR ANGLES

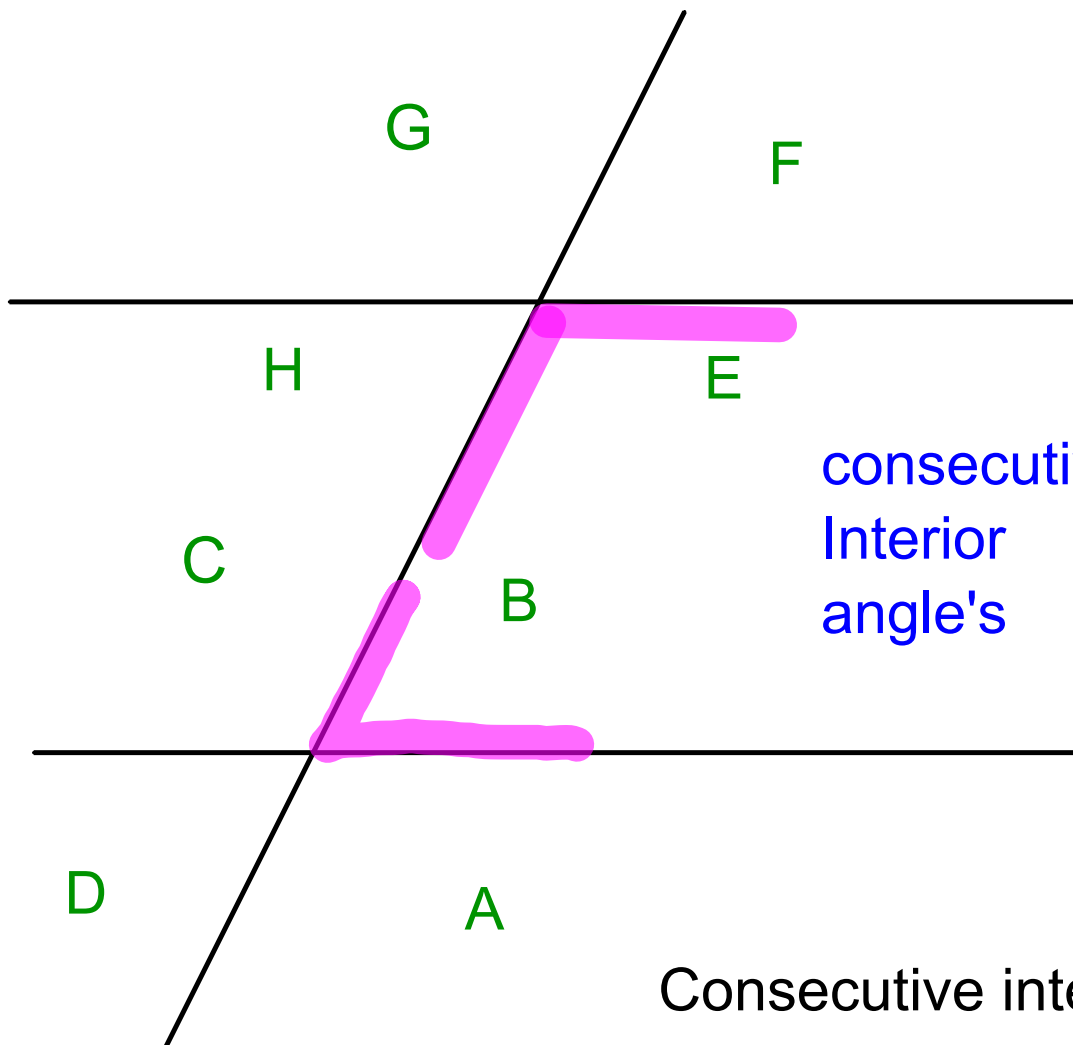


Angles D,A, G & F are exterior angles because they fall outside of the parallel lines

Interior angles



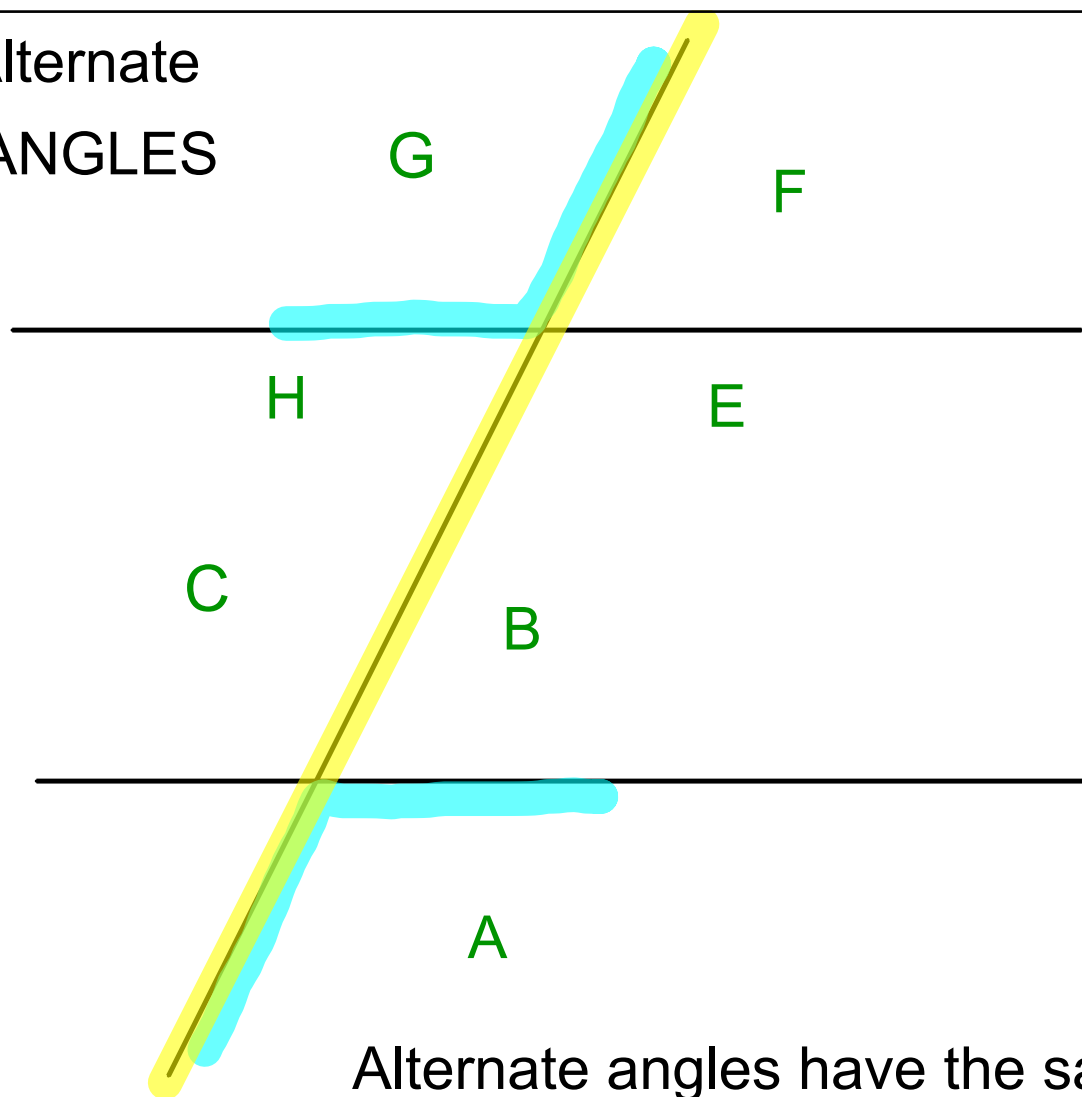
Angles B,C,E,H are interior angles because they fall inside the parallel lines



consecutive
Interior
angle's

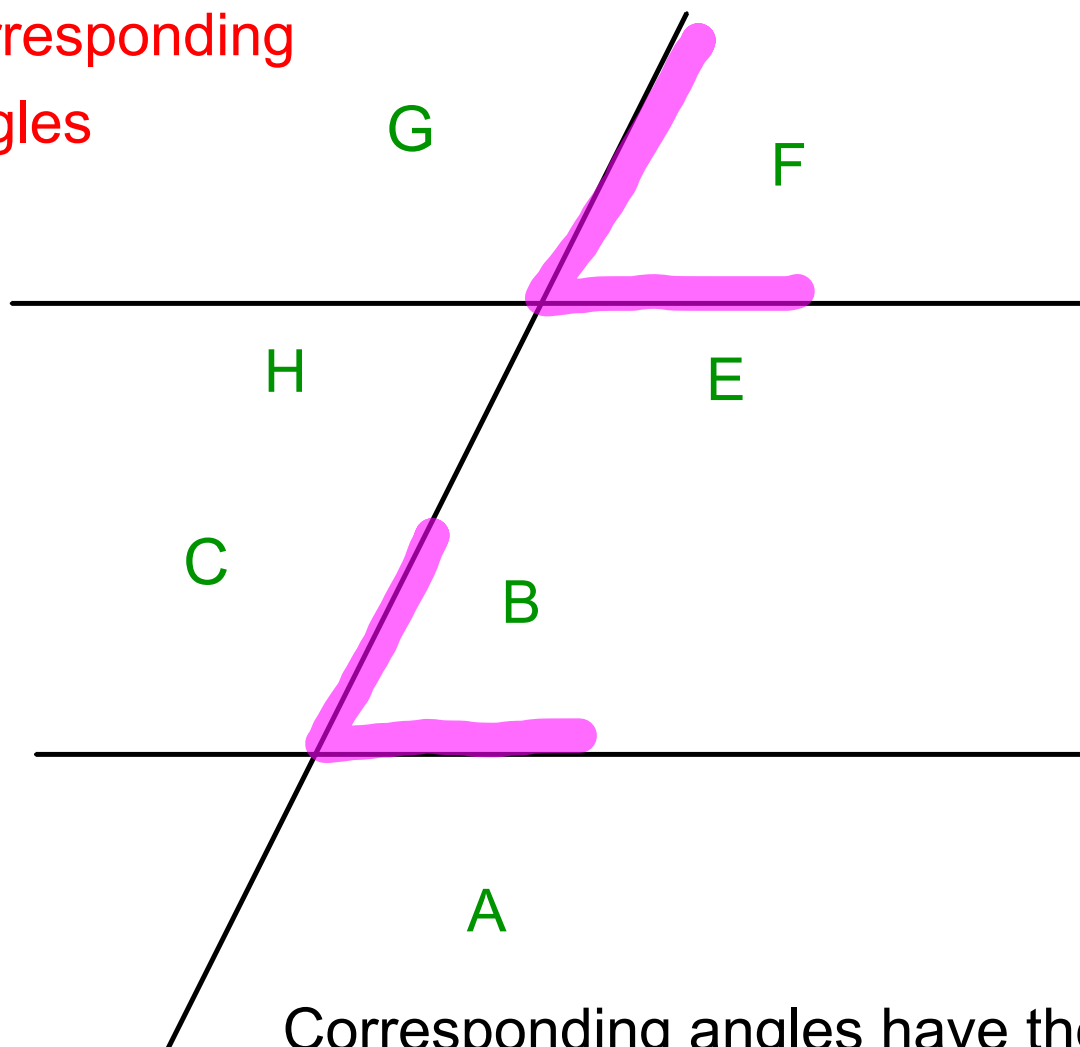
Consecutive interior
angles are
supplementary.
They add to 180° .

Alternate ANGLES



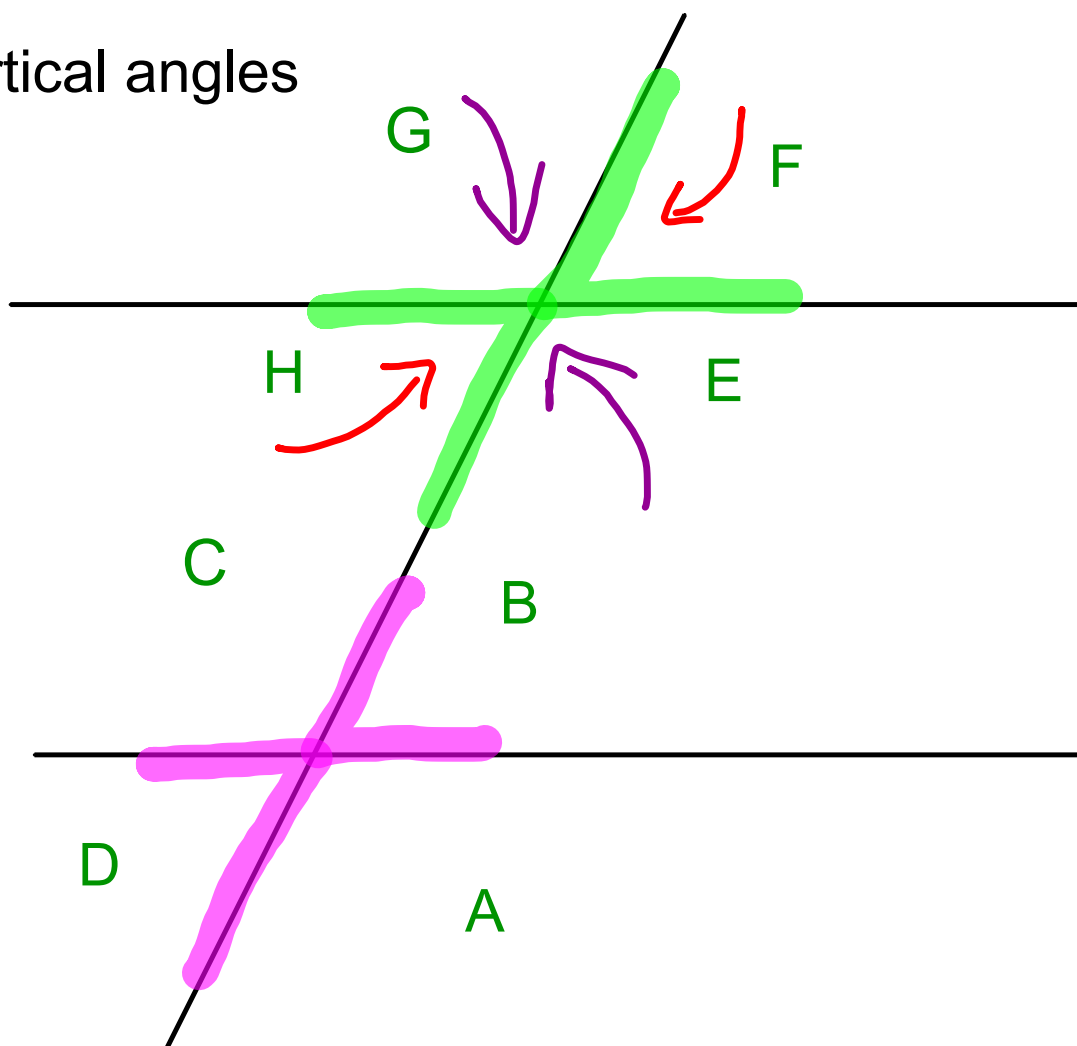
Alternate angles have the same measure. They lie on opposite sides of the transversal.

corresponding
angles

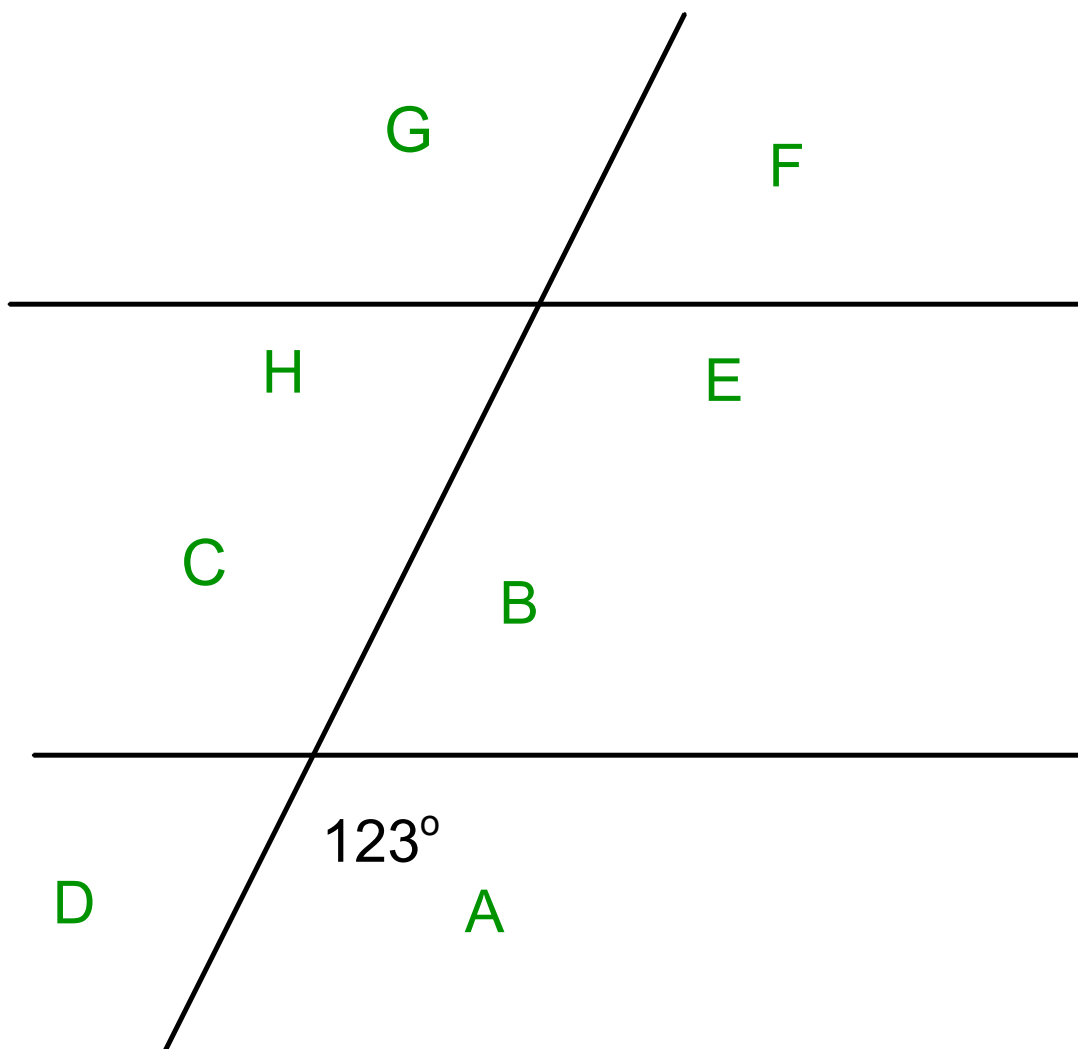


Corresponding angles have the
same relative place and size.

Vertical angles



Vertical angles are on opposite sides of the transversal and share a vertex. They have the same measure.



Find all the angle measures. Practice identifying all the angle relationships.

