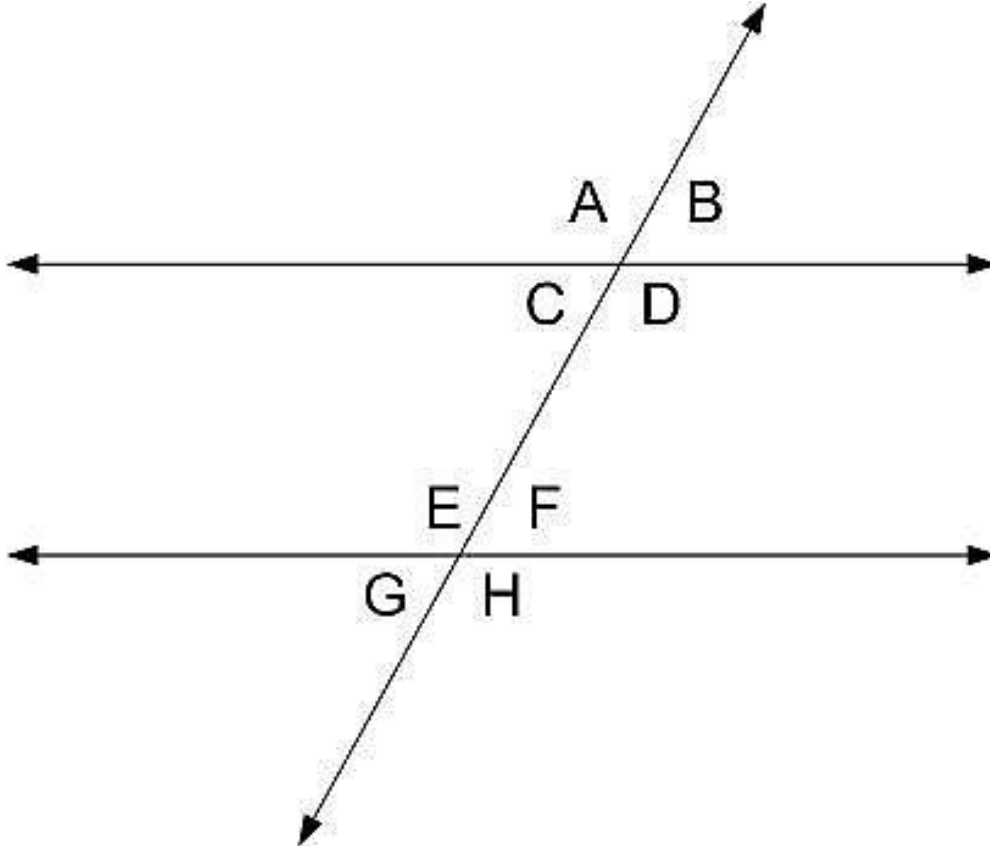


Angles and Parallel Lines



Relationships Between Angles

- **Adjacent Angles**: Angles that are **“next to each other”**.
- **Vertical Angles**: Angles that are **“across from each other”**.
- **Corresponding Angles**: Angles that **“match up”** from top to bottom. They are in the **SAME POSITION**
- **Alternate Interior Angles**: Angles that are **INSIDE** the parallel lines **AND** on **OPPOSITE SIDES OF THE TRANSVERSAL**.
- **Alternate Exterior Angles**: Angles that are **OUTSIDE** the parallel lines **AND** on **OPPOSITE SIDES OF THE TRANSVERSAL**.

Remember.....

Corresponding angles
are
EQUAL.

Alternate Interior angles
are
EQUAL.

Alternate Exterior angles
are
EQUAL.

Finding the measure of angles within parallel lines:

1. **Determine the relationship between the two given angles.**

You have 3 choices.....

The angles are EQUAL

or

The angles ADD UP TO 90

or

The angles ADD UP TO 180

2. **Set-up an equation using the two angles.**

You have 2 choices.....

Set the angles EQUAL to each other

or

Put ADDITION between the angles

3. **Solve the equation.**

4. **Substitute your ANSWER into each angle's EQUATION.**