

9/9/19 - Warm Up Problem

1. What is another name for line m ?

\overleftrightarrow{AC}

2. Name the plane.

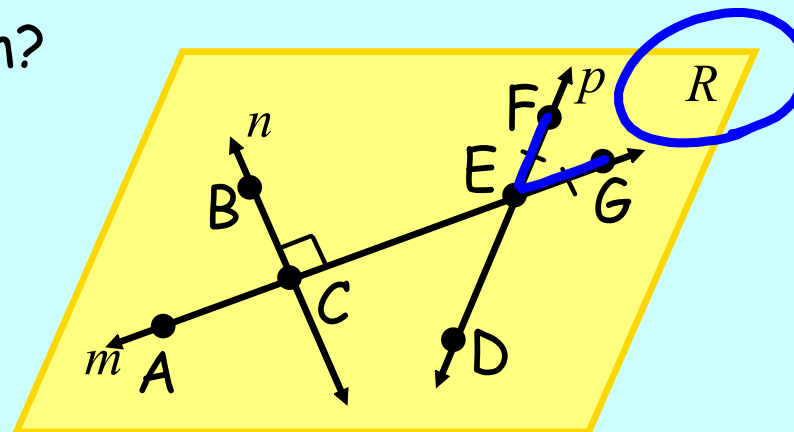
R

3. Name 2 congruent segments.

\overline{FC} \overline{EG}

4. Name a right angle.

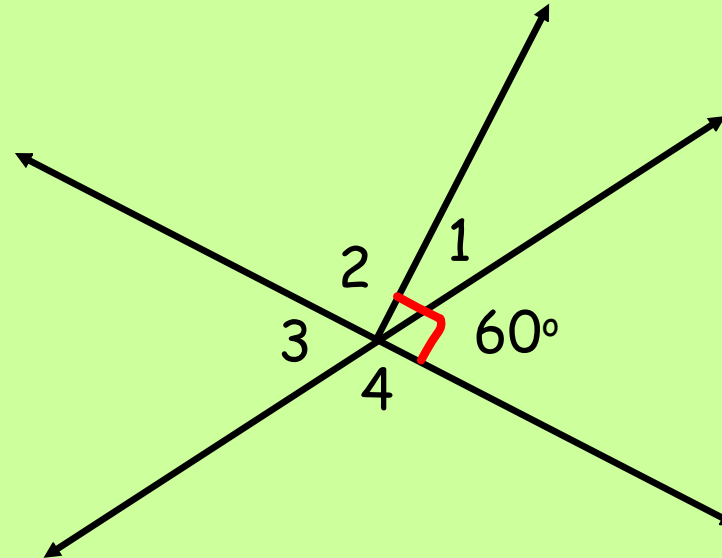
$\angle BCG$



Concept 3 - Angle Pairs

Goal: Identify and find measures of special pairs of angles

When lines intersect, several angles are formed. The measures of these angles have special relationships.



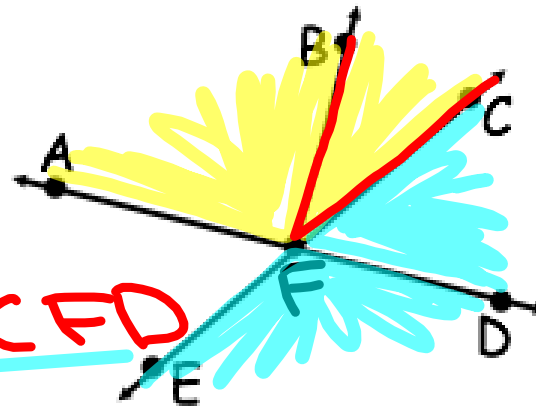
- Certain pairs of angles have special names and special relationships

ADJACENT ANGLES

Examples:

$\angle AFB$ and
 $\angle BFC$

$\angle EFD$ and $\angle CFD$



Characteristics:

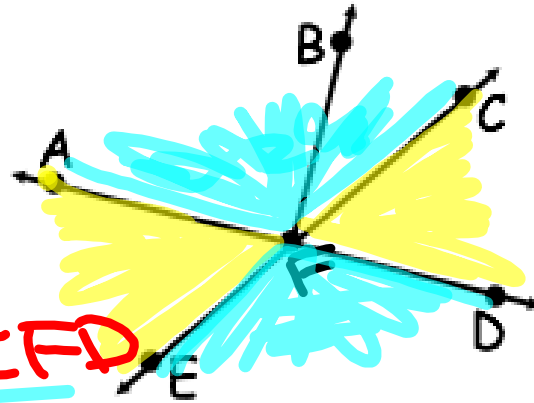
- share a vertex and one side
- have no common interior points
(don't overlap)

VERTICAL ANGLES

Examples:

$\angle AFE$ and $\angle CFD$

$\angle AFC$ and $\angle EFD$



Characteristics:

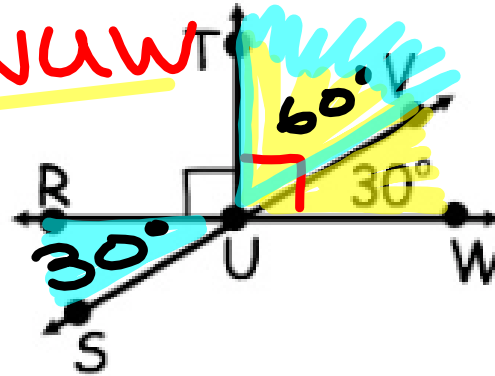
- opposite from each other
- formed by 2 intersecting lines
- always congruent

COMPLEMENTARY ANGLES

Examples:

$\angle TUV$ and $\angle VUW$

$\angle RUS$ and $\angle TUV$



Characteristics:

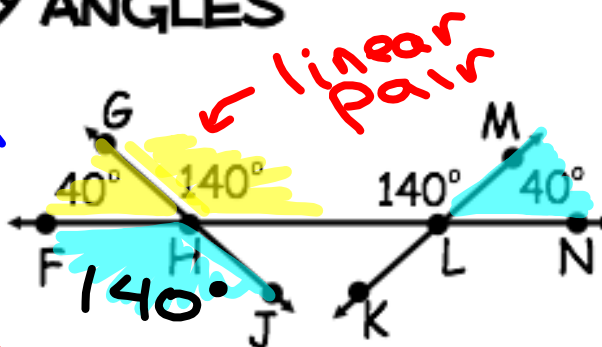
- measures add to 90°
- can be adjacent or nonadjacent
- each angle is called the "complement" of the other

SUPPLEMENTARY ANGLES

Examples:

$\angle FHG$ and
 $\angle GHL$

$\angle MLN$ and
 $\angle FHL$



Characteristics:

- measures add to 180°
- can be adjacent or nonadjacent
- each angle is called the "supplement" of the other

Linear Pair:

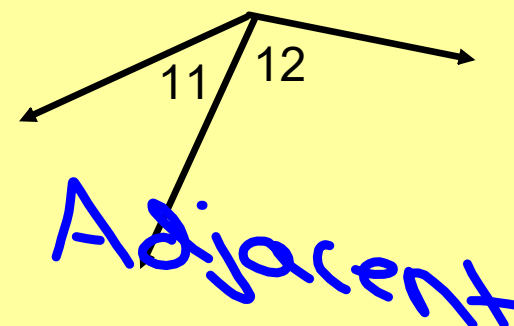
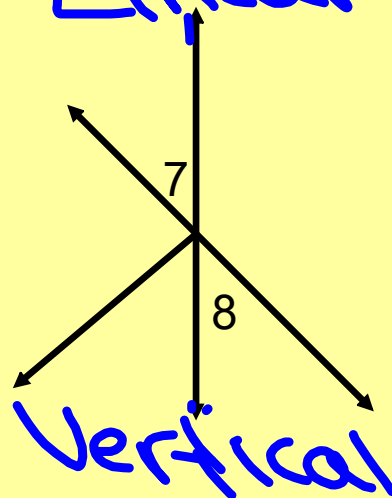
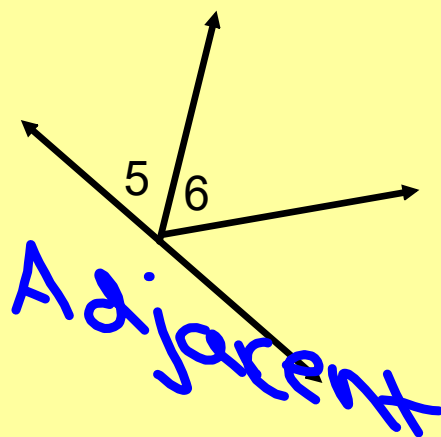
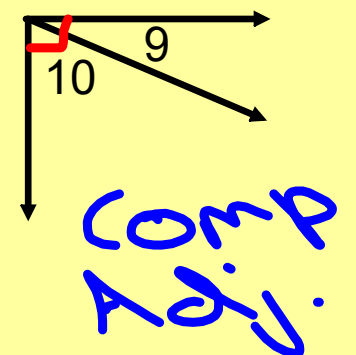
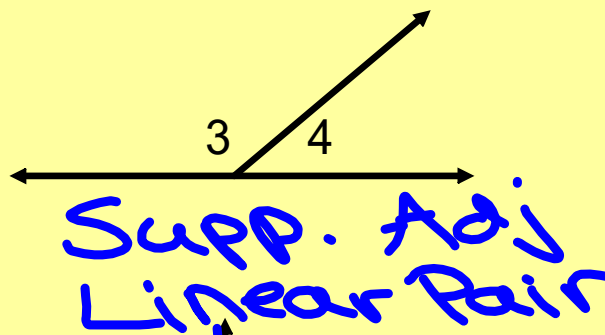
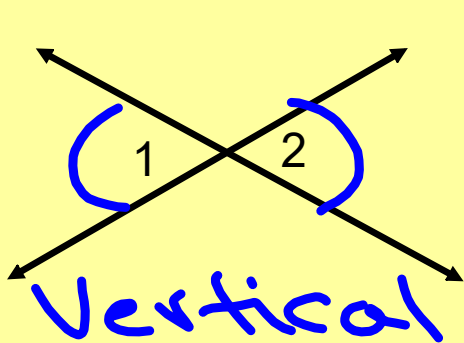


Postulate 1-9: Linear Pair Postulate

If two angles form a linear pair, then they are Supplementary.

Identify each special pair of angles.

Adjacent, Vertical, Supplementary, or Complementary



Assignment:

Math XL

Concept 3 Assignment