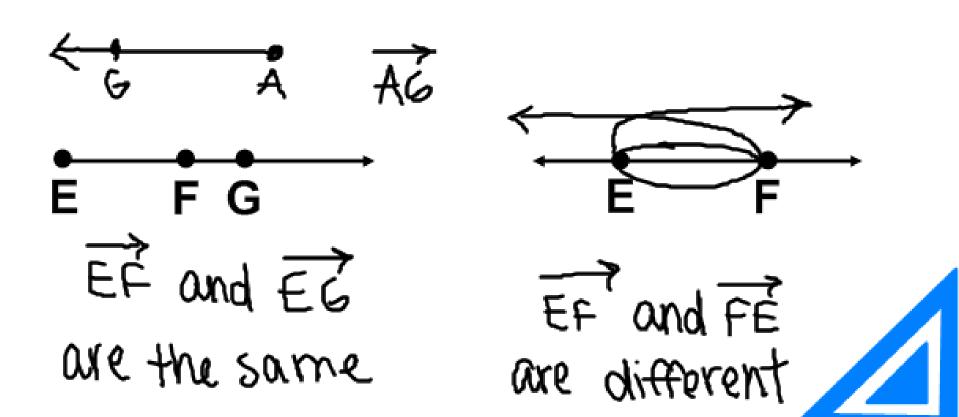
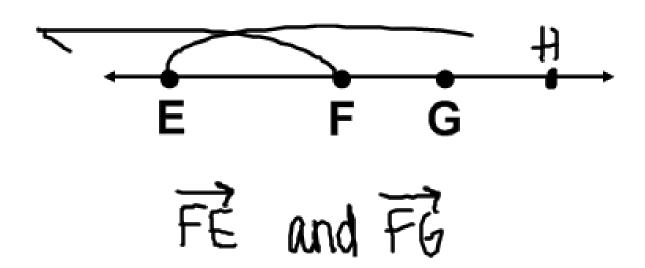
1 - 4 Angle Measure

<u>ray</u>: Part of a line one endpoint; extends infinitely in one direction



opposite rays: two collinear rays that share an endpoint



angle: formed by two noncollinear rays that have a common endpoint

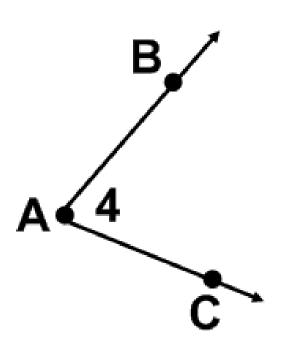
sides: the rays

vertex: the common endpoint

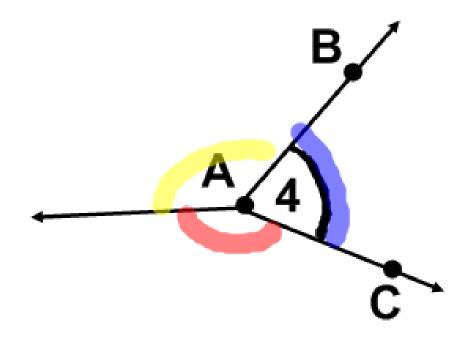
Name the...

sides:
$$\overrightarrow{AB}$$
 and \overrightarrow{AC}

vertex: A



If we had...



don't call it ∠A.

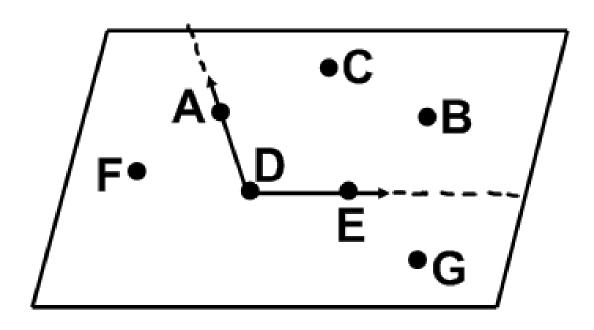
Which one is ∠A? Can't tell!

An angle divides a plane into three distinct parts:

Points A, D, and E lie on the angle.

Points B and C lie in the interior of the angle.

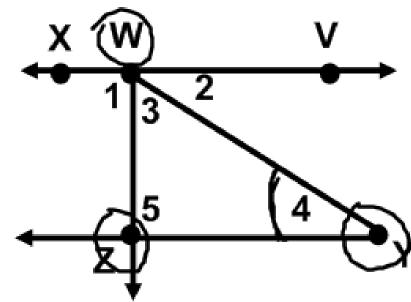
Points F and G lie in the exterior of the angle.



Name all angles that have W as a vertex.

Name the sides of $\angle 1$.

Write another name for \angle WYZ.



Classify angles by measure.

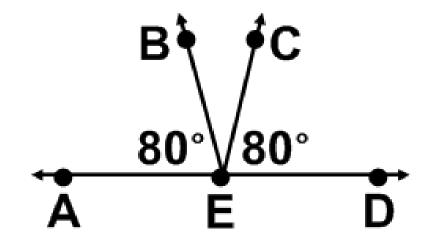
<u>right angle</u>: MLA = 90

acute angle: m∠A < 90

obtuse angle: M∠A >90

congruent angles: angles that have the same measure

LAEB = LDEC



Ex: $\angle ABC \cong \angle DEF$. If m $\angle ABC = 6x + 2$ and m $\angle DEF = 8x - 14$, find the actual measurements of $\angle ABC$ and $\angle DEF$.

$$-6x+2 = 8x-14$$

$$-6x+2$$

$$-6x$$

$$-7x$$

angle bisector: ray that divides an angle into two smaller congruent angles

** If PQ is the angle bisector of ∠RPS, then point Q lies in the interior of ∠RPS and ∠RPQ ≅ ∠QPS.



Homework:

1-4 WS