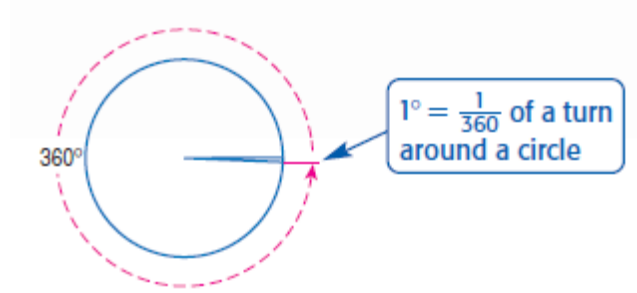
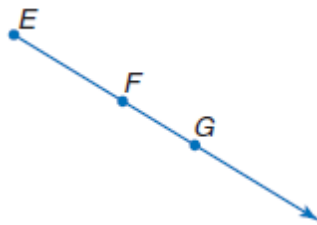


Angle Measure classwork

- **Degree:** $\frac{1}{360}$ of a turn around a circle



- **Ray:** part of a line
 - It has one endpoint and extends indefinitely in one direction.
 - Rays are named stating the endpoint first then any other point on the ray.



Please name 2 different rays: _____ & _____

- **Opposite rays:** two rays extending from a common point on a line



- **Angle:** a figure consisting of two noncollinear _____ with a common _____
 - *Vertex* – the common _____ of the rays of an angle
 - *Sides* – the _____ forming an angle

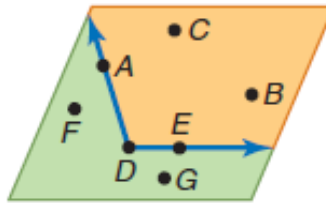
Angles:

An angle separates a plane into three distinct parts

- Interior
- Exterior
- The angle itself

Naming angles

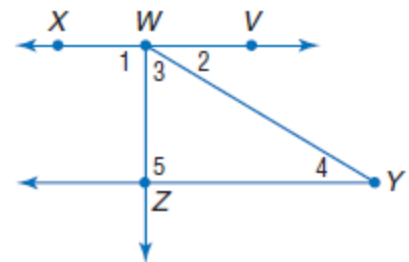
- Use a single _____ or _____
- Triplet of _____ (center letter is the vertex) if there is any possible ambiguity regarding angle to which you refer.



KeyConcept Classify Angles		
right angle	acute angle	obtuse angle
<p>$m\angle A = 90$</p>	<p>$m\angle B < 90$</p>	<p>$180 > m\angle C > 90$</p>

Ex #2: Use the figure to answer the following.

- Name all the angles that have W as a vertex.
- Name the sides of $\angle 1$.
- Write another name for $\angle WYZ$.
- Name a pair of opposite rays.

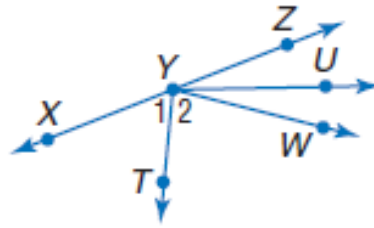


- **Congruent angles:** angles that have the same measure.
 - Arcs on the figure indicate which angles are congruent.
 - If $m\angle ABC = m\angle DEF$, then it is said that $\angle ABC \cong \angle DEF$.
- **Angle bisector:** a ray that divides an angle into _____ is called an angle bisector.

Ex #3: In the figure, \overrightarrow{YX} and \overrightarrow{YZ} are opposite rays.

\overrightarrow{YU} bisects $\angle ZYW$

\overrightarrow{YT} bisects $\angle XYW$.



- If $m\angle 1 = 5x + 10$ and $m\angle 2 = 8x - 23$, find $m\angle 2$.
- If $m\angle WYZ = 82$ and $m\angle ZYU = 4r + 25$, find r .
- If $\angle ZYW$ is a right angle and $m\angle ZYU = 13a - 7$, find a .