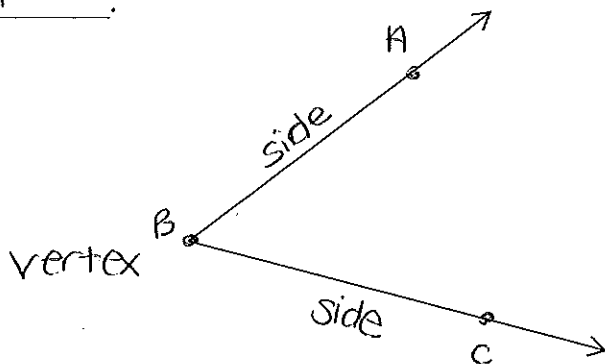


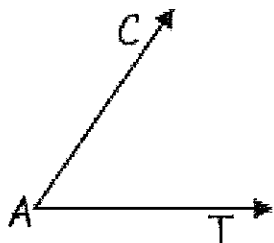
An angle is the figure formed by two rays that share the same endpoint.



vertex \rightarrow point B
 sides \rightarrow rays \vec{BA} & \vec{BC}

Naming Angles:

- use \angle symbol
- use 3 letters
- use 1 letter when appropriate

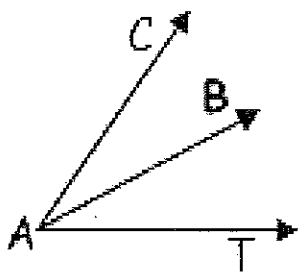


Acceptable: $\angle CAT$ & $\angle TAC$ & $\angle A$

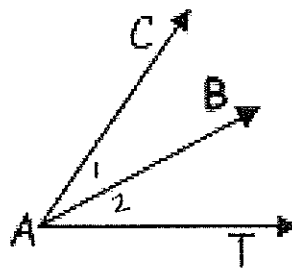
Unacceptable: $\angle ACT$ & $\angle ATC$

Caution!

Easier ways to name angles:



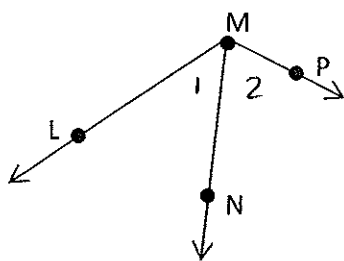
* sometimes only using one letter is not specific enough
 * when in doubt, use 3 letters
 $\angle CAT$, $\angle CAB$, $\angle BAT$



$\angle CAT$
 $\angle 1$
 $\angle 2$

Example:

Name the angles in the figure.



$\angle LMP$
 $\angle LMN$ or $\angle 1$
 $\angle PMN$ or $\angle 2$

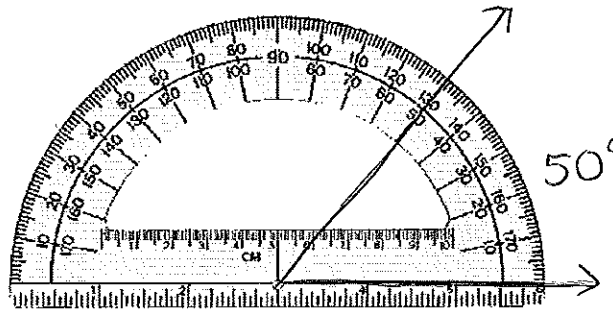
Measuring Angles:

Angles are measured in units called degrees.

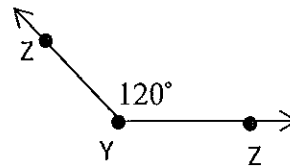
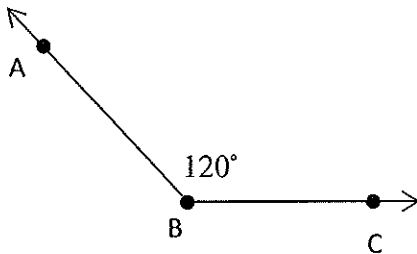
Ex: 45°

The measure of $\angle A$ is written as $m\angle A$

Angles are measured using a protractor.



congruent angles have the same measure.



$\angle ABC \cong \angle XYZ$
 * angles are congruent (figures)

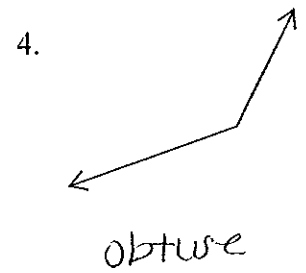
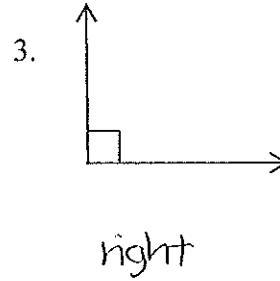
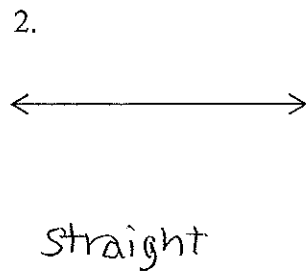
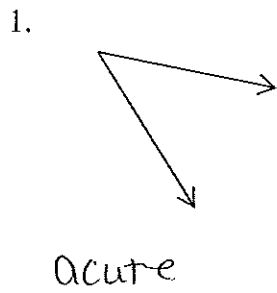
$m\angle ABC = m\angle XYZ$
 * measures are equal (numbers)

Classifying Angles:

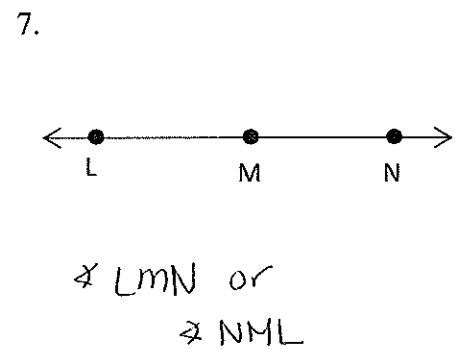
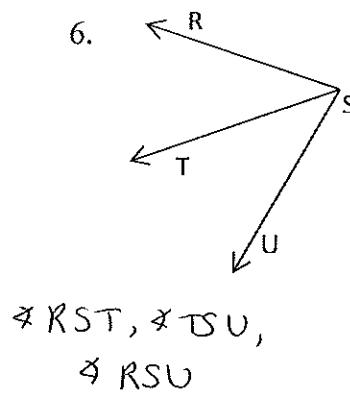
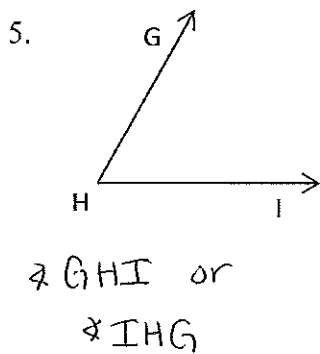
acute		measure is between 0° and 90°
right	a small corner means right	measure is 90°
obtuse		measure is between 90° and 180°
straight		measure is 180°

Homework:

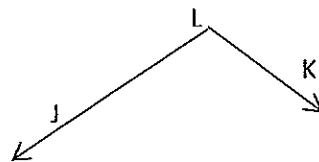
Classify each angle as acute, obtuse, right, or straight.



Name each angle.



8. Name the sides and the vertex of the given angle.



vertex: point L
sides: \vec{LJ} and \vec{LK}

