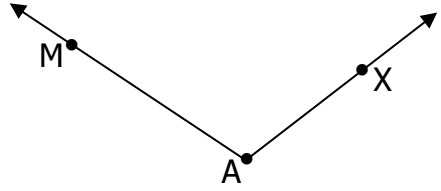
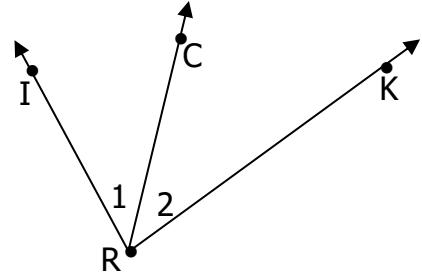
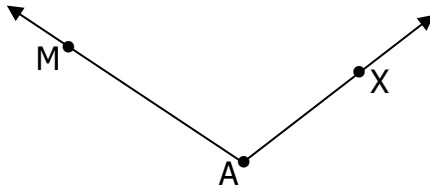


Definition: An angle is formed by two rays that share a common endpoint.



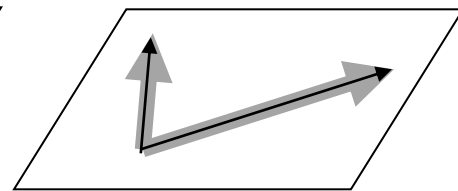
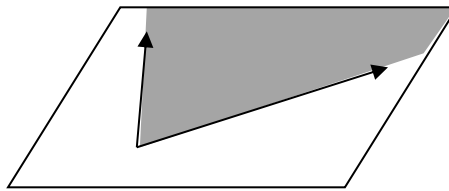
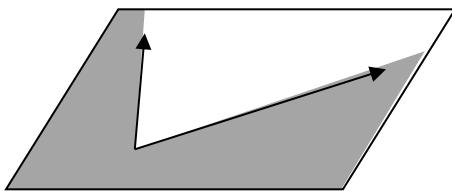
1. The point that the two rays intersect is called the _____.
2. The two rays are called the _____ of the angle.
3. There are four ways to name an angle. Sometimes one cannot use a capital letter. Why not?
4. When using three letters, the _____ must be the letter in the middle. Other times one uses numbers to name the angles as below.



5. Name an angle using one letter. _____
6. Name three different angles. _____, _____, _____
6. $\angle IRC$ can also be named in what two other ways? _____, _____

An angle breaks up a plane into **three** regions:

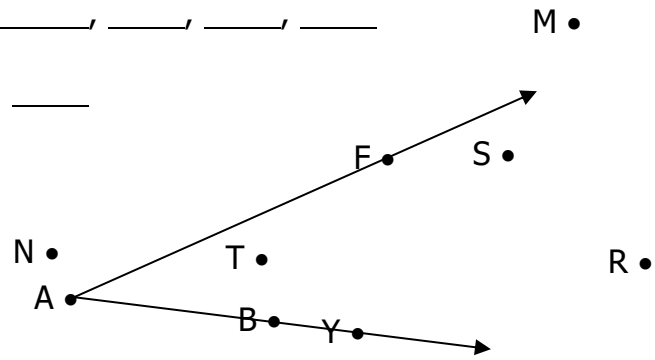
the _____ of the angle, the _____ of the angle, _____ points
 _____ the angle.



7.

8. Name the points on the **interior** of $\angle FAB$ _____

Name the points **on** $\angle FAB$. _____



Example 2:

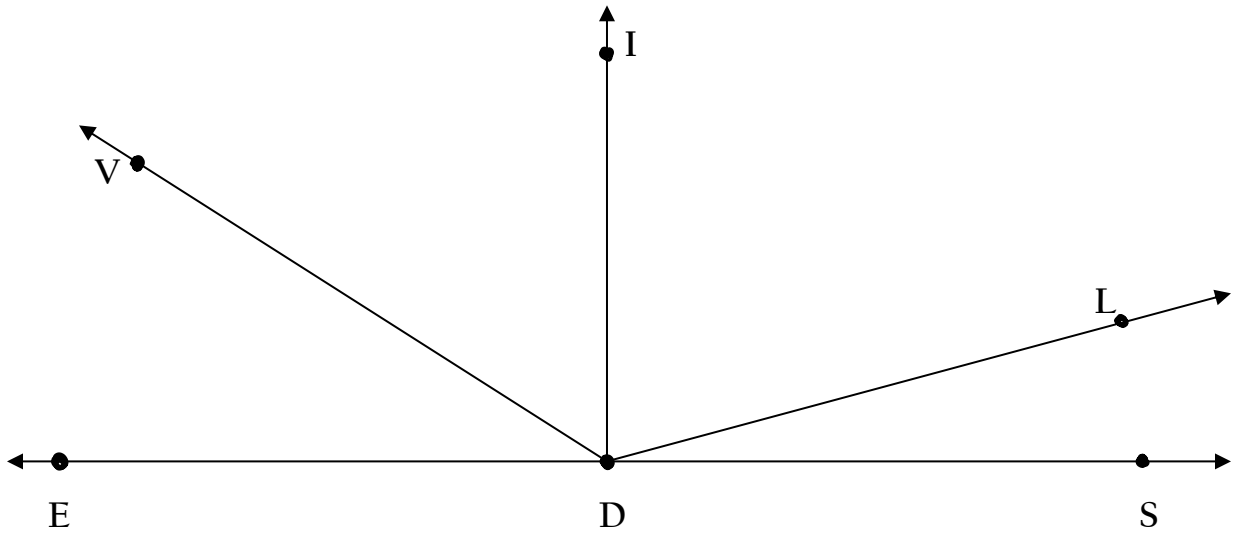
Find the measure of each angle and classify it.

a) $\angle VDS$
 $\angle SDE$

b) $\angle SDL$

c) $\angle IDS$

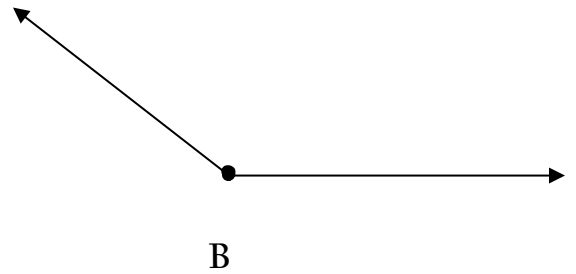
d)



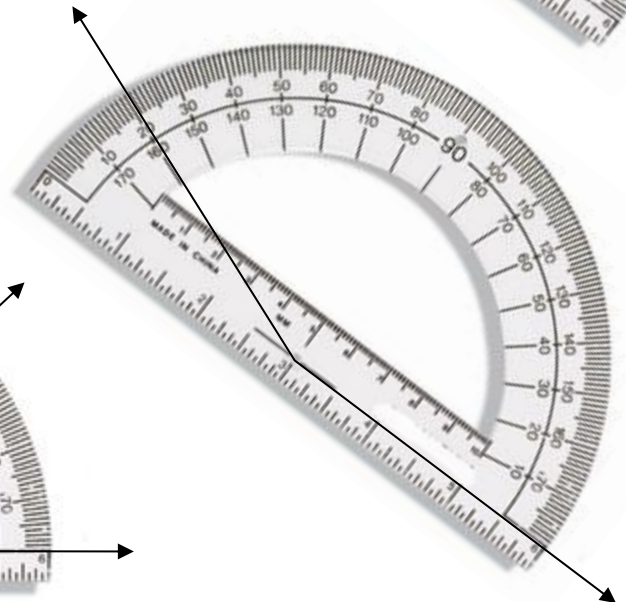
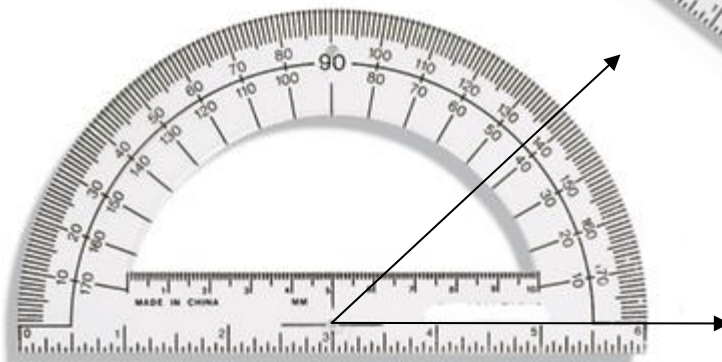
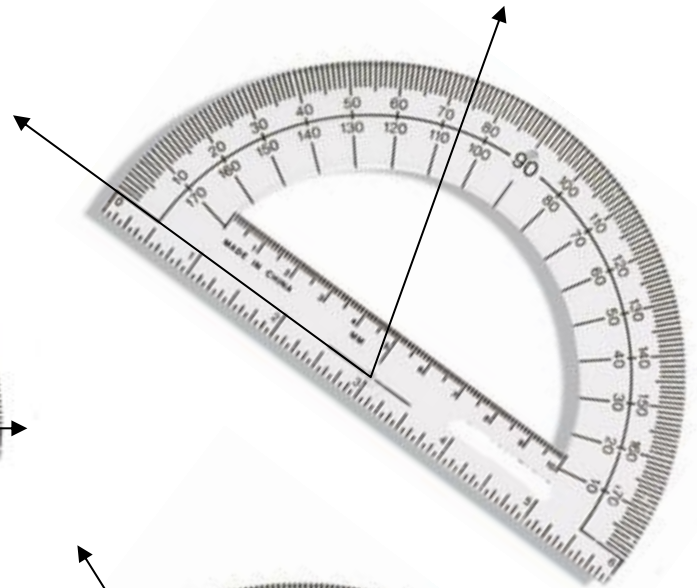
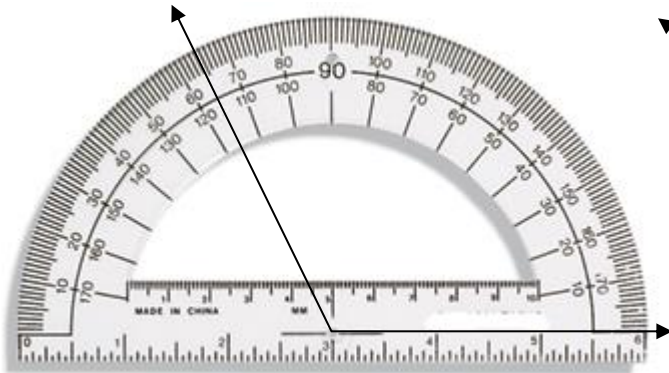
Example 4:

The measure of $\angle B$ is 138. Solve for x.

$$(5x - 7)^\circ$$

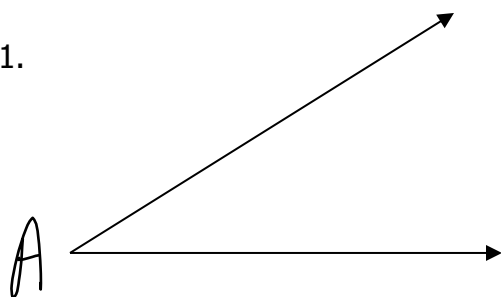


Goal: To measure angles using a protractor.

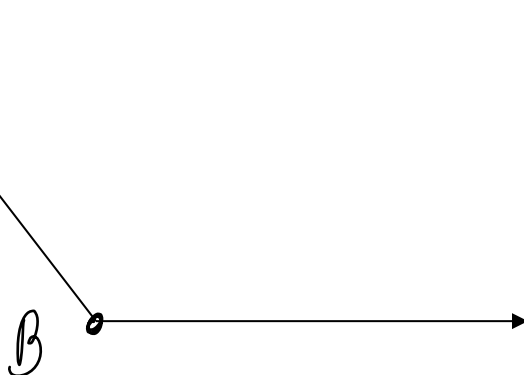


measure each angle to the nearest whole degree. You may have to extend the sides of your angle to do the measurement.

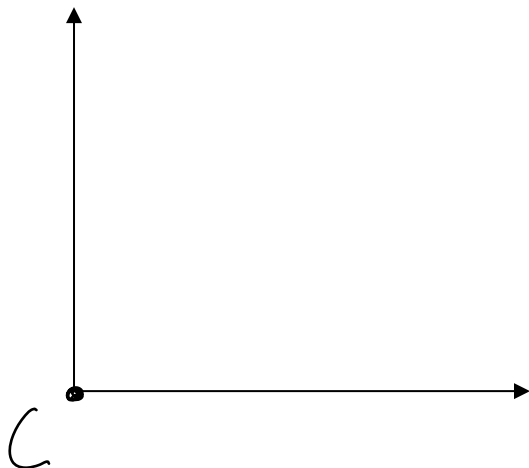
1.



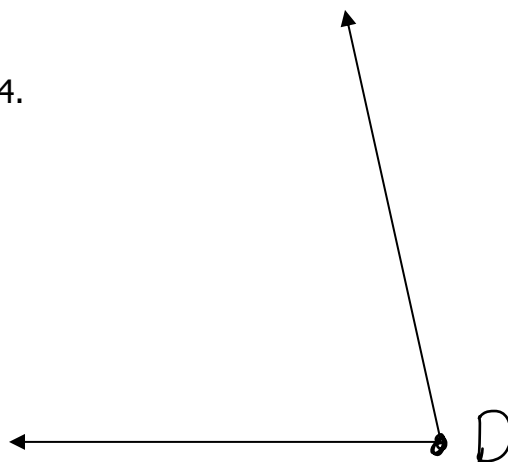
2.



3.



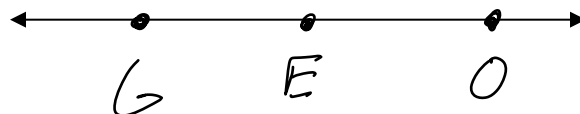
4.



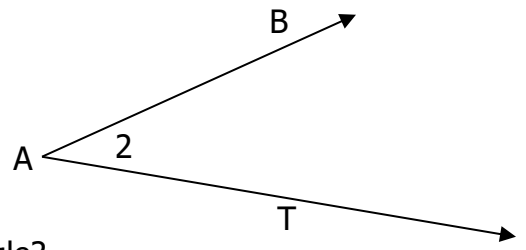
5.



6.



1] Name the angle in 4 ways:

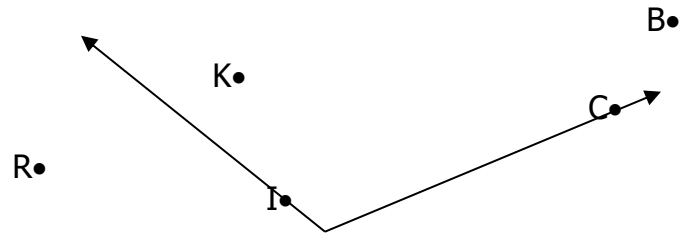


2] What points are in the interior, exterior or on the angle?

Interior: _____

Exterior: _____

On: _____

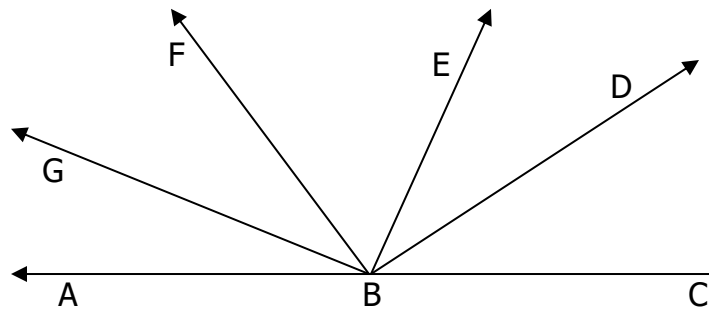


3] Use a protractor to measure each angle.

$\angle ABG =$ _____ $\angle EBC =$ _____

$\angle ABF =$ _____ $\angle FBC =$ _____

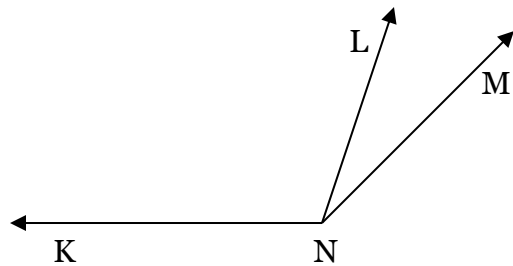
$\angle ABD =$ _____ $\angle FBD =$ _____



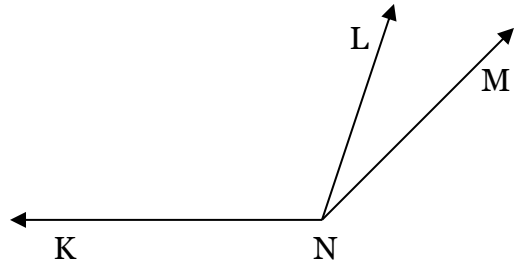
1.4 Notes - The Angle Addition Postulate

Geometry G

Suppose $m\angle KNL = 110^\circ$ and $m\angle LNM = 25^\circ$. What would you do to find the $m\angle KNM$?



Suppose $m\angle MNK = 155^\circ$ and $m\angle LNM$ is 30° . What would you do to find the $m\angle LNK$?



Angle Addition Postulate

For any $\angle ABC$, if D is in the interior of $\angle ABC$, then $m\angle ABD + m\angle DBC = m\angle ABC$.

Draw a diagram below to show this.

Vocabulary

A _____ that divides an angle into _____ angles of equal

is called the _____.