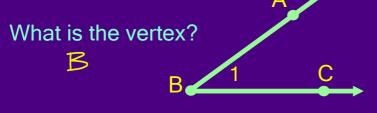
1.4 Angles & Their Measures

An <u>angle</u> consists of two rays with the same endpoint.

The rays are the <u>sides</u> of the angle.
The endpoint is the <u>vertex</u>.



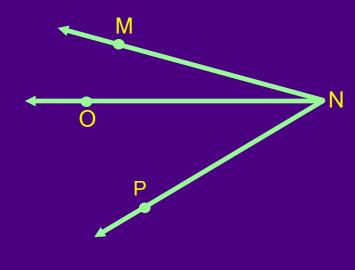
What are the names of the sides?

How would you name this angle?

LB, LABC,

LCBA, L1

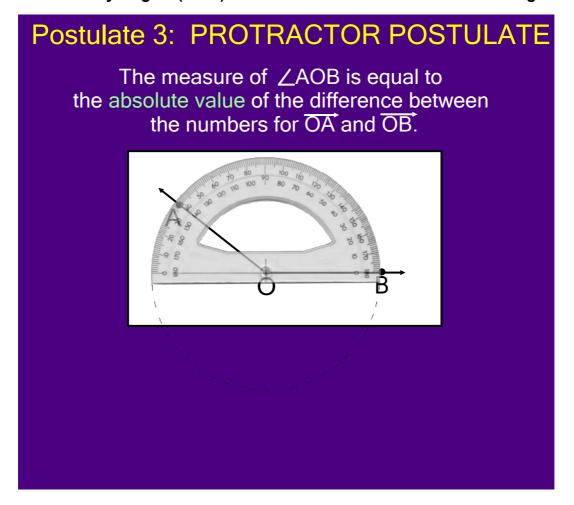


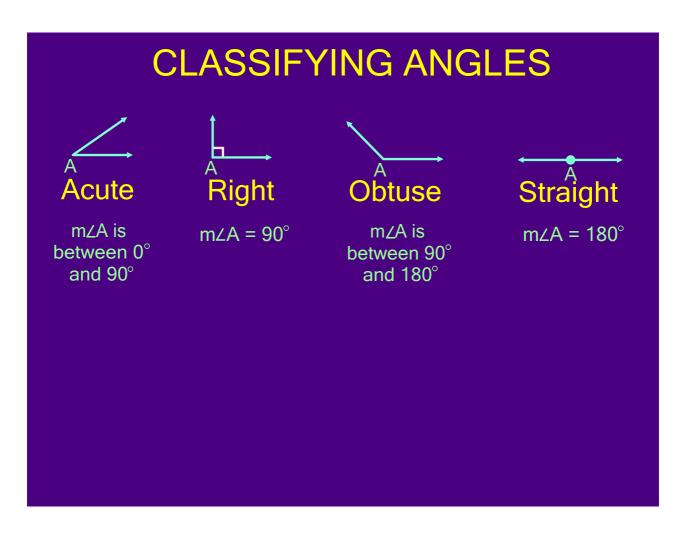


You should only name an angle by a <u>single</u> letter when there is no chance of confusion.

How do we measure angles?

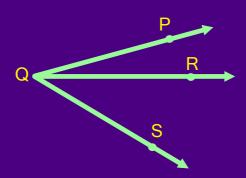
degrees

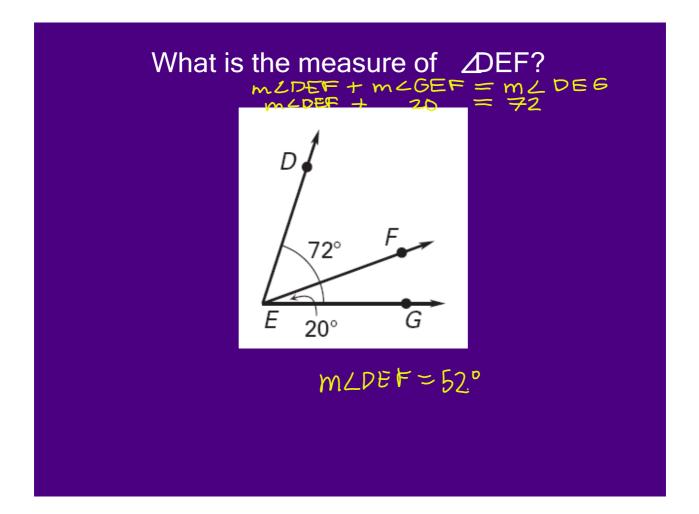


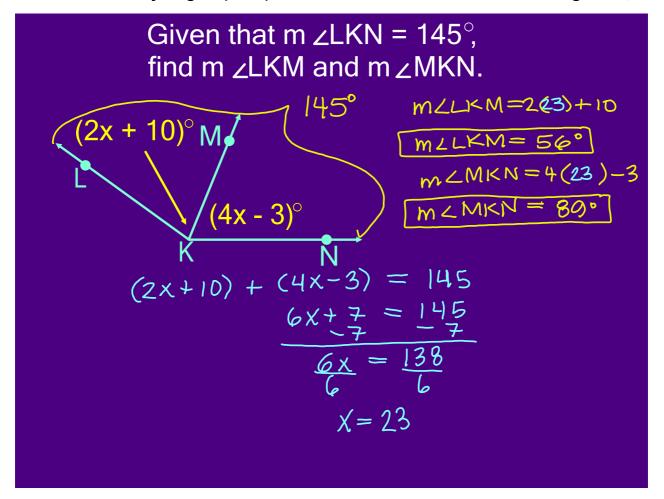


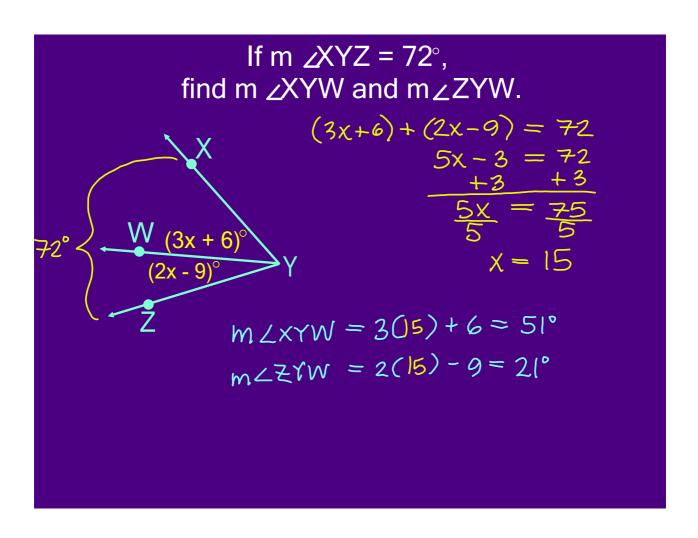
Postulate 4: ANGLE ADDITION POSTULATE

If R is in the interior of $\angle PQS$, then m $\angle PQR + m \angle RQS = m \angle PQS$.





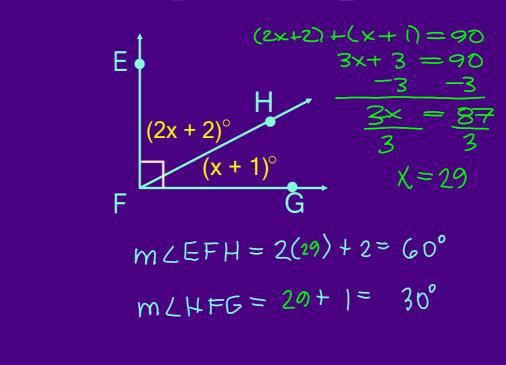




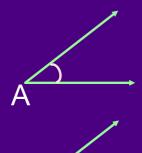
Given that m∠KLM is a straight angle, find m∠KLN and m∠NLM.

$$(4x+3)+(10x-5) = 180$$
 $14x-2 = 180$
 $14x = 182$
 $(4x+3)^{\circ}$
 $(10x-5)^{\circ}$
 $(10x-5)^$

Given that m∠EFG is a right angle, find m∠EFH and m∠HFG.



Two angles are congruent angles if they have the same measure.



Angle measures are equal.

$$m \angle A = m \angle B$$
"is equal to"

Angle are congruent.

Identify all pairs of congruent angles in the diagram.

