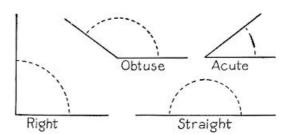
1.4 Measure and Classify Angles

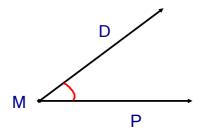
Goal: Name, measure, and classify angles.





Angle - union of two rays with the same endpoint

* the rays are the sides of the angle and the endpoint is the vertex of the angle



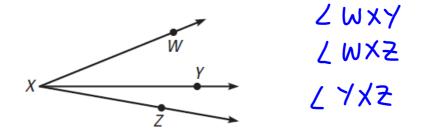
vertex: M

sides: MD MP

name the angle: $\angle DMP$

LM

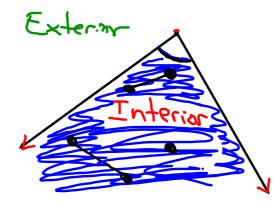
How many angles in the figure below? Name them.



You should not name any of these angles $\angle X$ because all three angles have X as their vertex.

* the measure of an angle is the openness of the interior of an angle in degrees $^{\circ}$

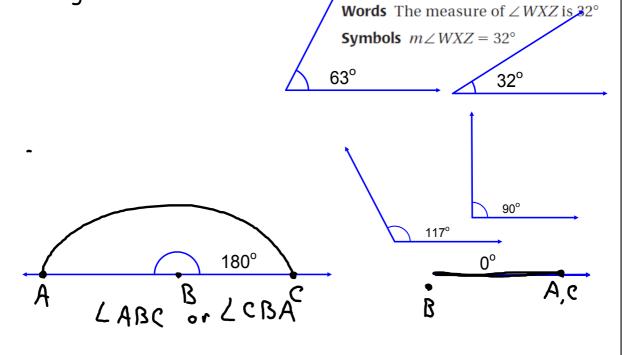
Interior / Exterior of an Angle



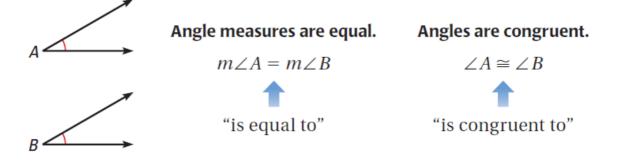
A point is in the *interior* of an angle if it is between points that lie on each side of the angle.

inter

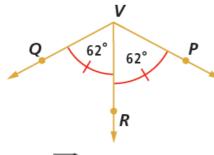
* a protractor can be used to approximate the measure of an angle



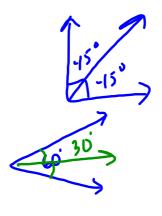
* Two angles are congruent angles if and only if they have the same measure.



Angle Bisector - is a ray (line or segment) that divides an angle into two angles that are congruent

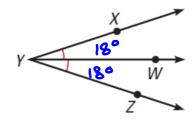


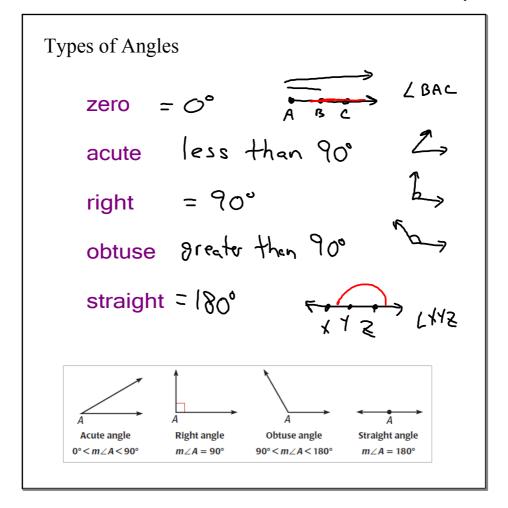
 \overrightarrow{VR} bisects $\angle PVQ$.

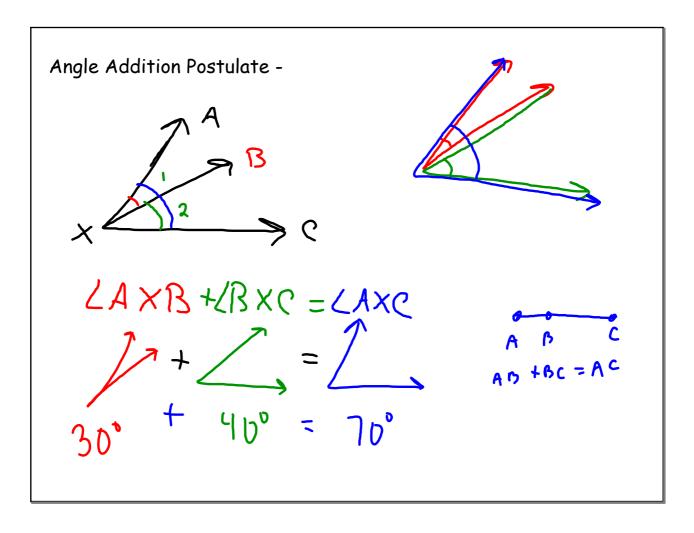


In the diagram at the right, \overrightarrow{YW} bisects $\angle XYZ$, and $m\angle XYW = 18^{\circ}$. Find $m\angle XYZ$.

36°







adjacent angles - 2 angles that share a common vertex and side, but have no common interior points

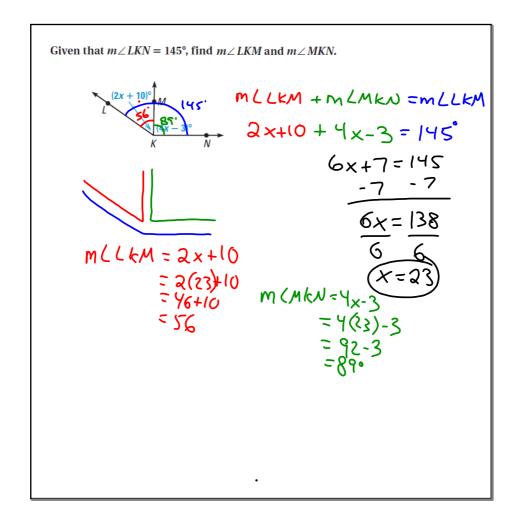
LBAD \overrightarrow{AC}

adjacent = next to

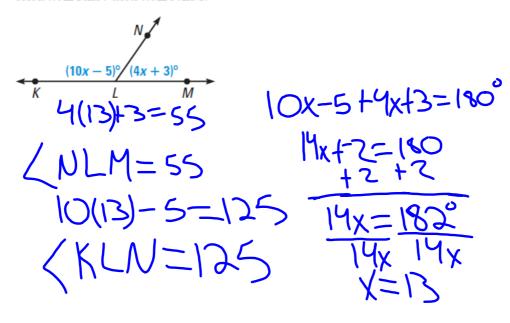
(CAD

LBAC - are next to each other

- share a common side in the interior



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



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

| HW: Pg 28 #'s 1-31, 33-42, 48, 51-54 |
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