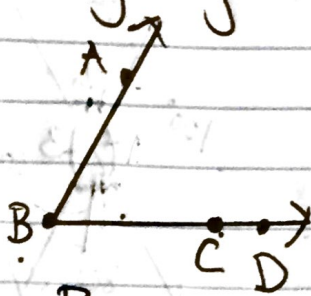


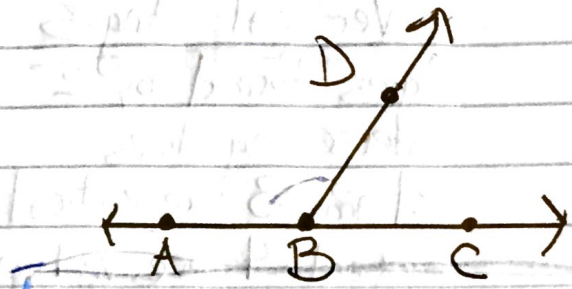
G2 Notes - Lines + Angles

Essential Question - What are the names ^{of angles} and what are their relationships?

Naming Angles



$\angle B$
 $\angle ABC$
 $\angle CBA$
 ↖ vertex



Naming Angles - use points
 $\angle ABD$ or $\angle DBA$
 $\angle CBD$ or $\angle DBC$
 ↖ vertex ↗

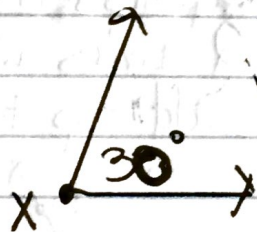
= equal

\approx approximately

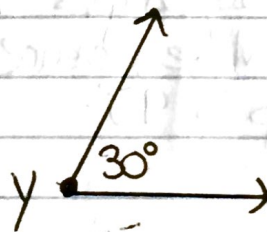
\cong congruent

\neq not equal

\sim similar



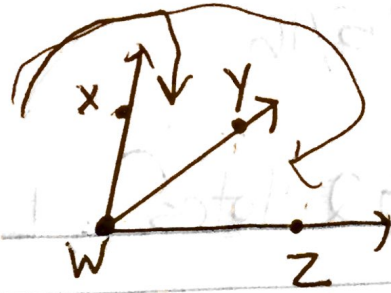
$\angle X \cong \angle Y$
 ↖ congruent
 exactly same size and shape



$m\angle X = 30^\circ$
 ↖ measure → number of degrees
 $m\angle X = m\angle Y$

Adjacent Angles

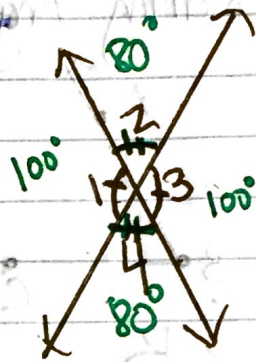
- ① common vertex
- ② share a common ray



$\angle XWY$ and $\angle YWZ$ are adjacent pairs and must touch

Vertical Angles

angles formed by 2 intersecting lines
 $\angle 1$ and $\angle 3$ are vertical
 $\angle 2$ and $\angle 4$ are vertical
 vertical \angle s are \cong

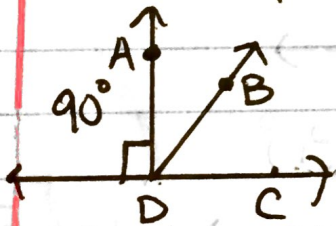


$\angle 1 \cong \angle 3$
 $\angle 2 \cong \angle 4$

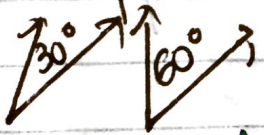
Angle Pairs

Complementary Angles

2 angles whose measures add up to 90°



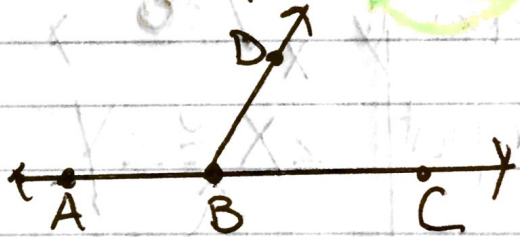
$\angle ADB + \angle BDC$ are complementary



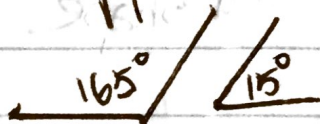
$m\angle ADB + m\angle BDC = 90^\circ$

Supplementary

2 angles whose measure add up to 180°



$\angle ABD$ and $\angle DBC$ are supplementary



$m\angle ABD + m\angle CBD = 180^\circ$