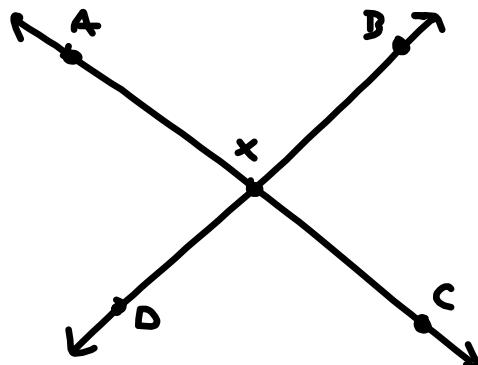


Section 1.8 Pairs of Angles

Obj: Identify and use adjacent angles, vertical angles, complementary angles, supplementary angles, and linear pairs

Adjacent Angles

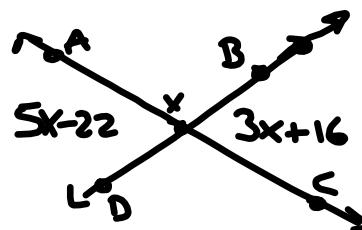
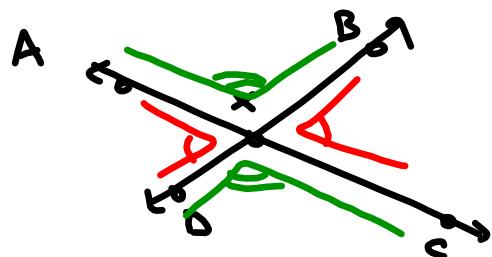
- angles who share a common vertex, but have no common interior points



$\angle AXD$ and $\angle AXB$ are adjacent
 $\angle BYC$ and $\angle DYC$
 $\angle AXB$ and $\angle BXC$
 $\angle CXD$ and $\angle DXA$

Vertical Angles

Vertical angles share a vertex, are non-adjacent, and are formed by two intersecting lines.



$$5x - 22 = 3x + 16$$

$$2x - 22 = 16$$

$$2x = 38$$

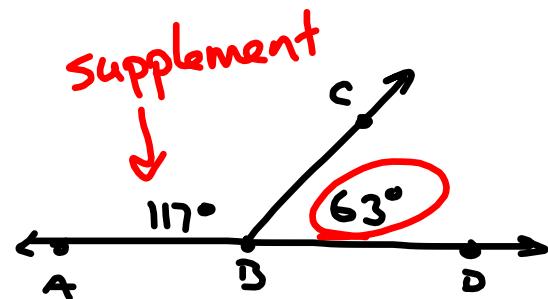
$$x = 19$$

$$m\angle A \times D = ? \quad 73^\circ$$

$$m\angle A \times B = ? \quad 107^\circ$$

Supplementary Angles

Two angles whose measure adds to 180°



* if they are adjacent
Linear Pair

pg 52
1-3 all
17-25 all
26-32 even
40-46 all

Complementary angles

Two angles whose measure add up to 90°