

**1.6**

**Notetaking with Vocabulary**  
For use after Lesson 1.6

In your own words, write the meaning of each vocabulary term.

complementary angles

supplementary angles

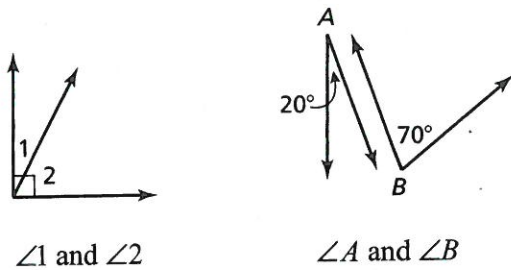
adjacent angles

linear pair

vertical angles

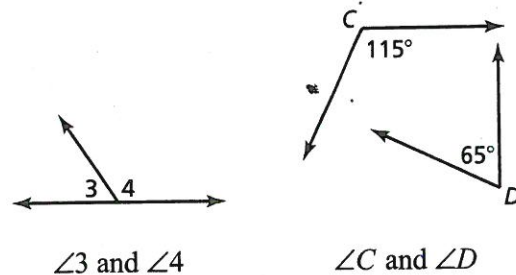
**Core Concepts**

**Complementary and Supplementary Angles**



**complementary angles**

Two positive angles whose measures have a sum of  $90^\circ$ . Each angle is the *complement* of the other.



**supplementary angles**

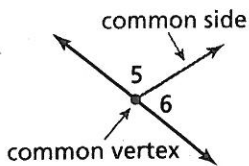
Two positive angles whose measures have a sum of  $180^\circ$ . Each angle is the *supplement* of the other.

**Notes:**

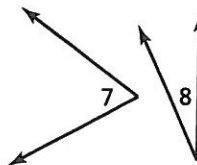
**1.6** Notetaking with Vocabulary (continued)

**Adjacent Angles**

Complementary angles and supplementary angles can be *adjacent angles* or *nonadjacent angles*. **Adjacent angles** are two angles that share a common vertex and side, but have no common interior points.



$\angle 5$  and  $\angle 6$  are adjacent angles

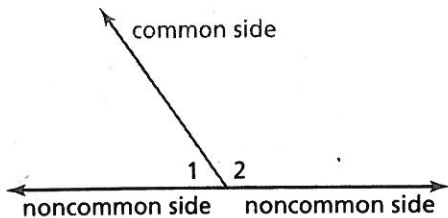


$\angle 7$  and  $\angle 8$  are nonadjacent angles.

**Notes:**

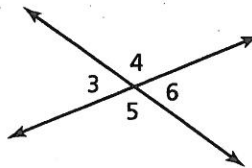
**Linear Pairs and Vertical Angles**

Two adjacent angles are a **linear pair** when their noncommon sides are opposite rays. The angles in a linear pair are supplementary angles.



$\angle 1$  and  $\angle 2$  are a linear pair.

Two angles are **vertical angles** when their sides form two pairs of opposite rays.



$\angle 3$  and  $\angle 6$  are vertical angles.

$\angle 4$  and  $\angle 5$  are vertical angles.

**Notes:**