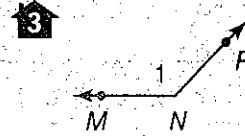
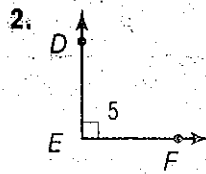
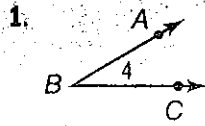
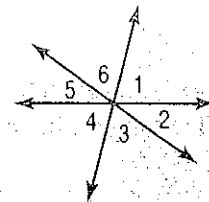


Name each angle in four ways. Then classify the angle as *acute*, *right*, *obtuse*, or *straight*. (Example 1)



CCSS Identify Structure Refer to the diagram at the right. Identify each angle pair as *adjacent*, *vertical*, or *neither*. (Example 2)



4. $\angle 2$ and $\angle 5$ _____

5. $\angle 4$ and $\angle 6$ _____

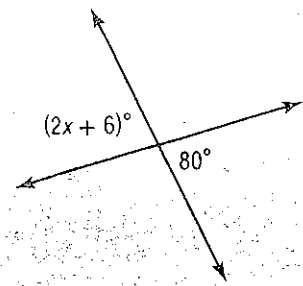
6. $\angle 3$ and $\angle 4$ _____

7. $\angle 5$ and $\angle 6$ _____

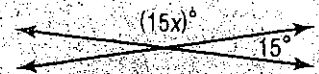
8. $\angle 1$ and $\angle 3$ _____

9. $\angle 1$ and $\angle 4$ _____

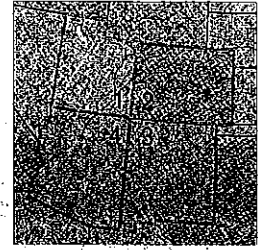
10. What is the value of x in the figure at the right? (Examples 3 and 4) _____



11. What is the value of x in the figure at the right? (Examples 3 and 4) _____



12. The corner where the states of Utah, Arizona, New Mexico, and Colorado meet is called the Four Corners.



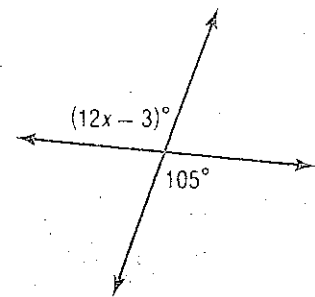
a. Identify a pair of vertical angles. Justify your response.


b. Identify a pair of adjacent angles. Justify your response.

13. What is the value of x in the figure at the right?

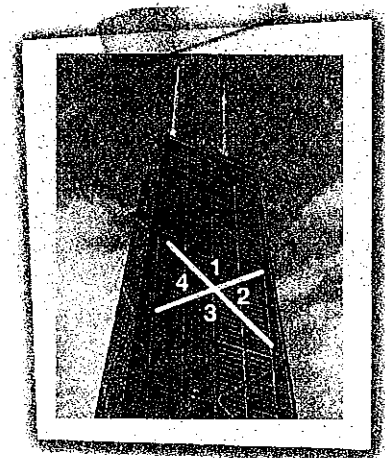


14. What is the value of x in the figure at the right?

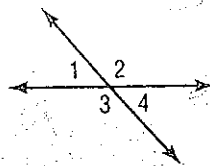


15.  **Identify Structure** The John Hancock Center in Chicago is shown at the right. Classify each pair of angles.

- a. $\angle 1$ and $\angle 2$ _____ b. $\angle 2$ and $\angle 4$ _____
- c. $\angle 3$ and $\angle 4$ _____ d. $\angle 1$ and $\angle 3$ _____
- e. If the measure of $\angle 2$ is 66° , what are the measures of the other angles?



16. Which statement is true?



- (A) $\angle 1$ and $\angle 4$ are adjacent angles.
- (B) $\angle 2$ and $\angle 3$ are vertical angles.
- (C) $\angle 3$ and $\angle 4$ are vertical angles.
- (D) $\angle 2$ and $\angle 3$ are adjacent angles.