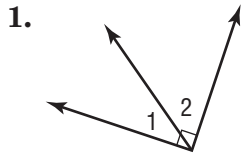


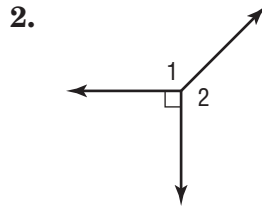
Lesson 2 Homework Practice

Complementary and Supplementary Angles

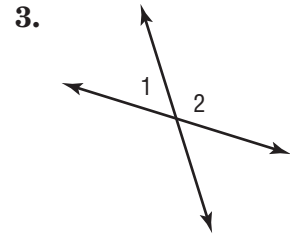
Classify each pair of angles as *complementary*, *supplementary*, or *neither*.



complementary

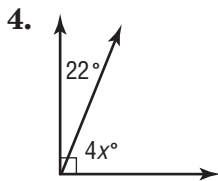


neither

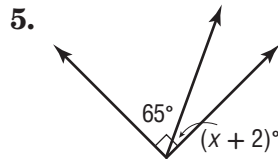


supplementary

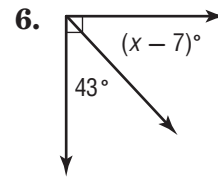
ALGEBRA Find the value of x in each figure.



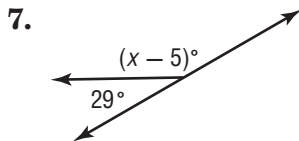
17



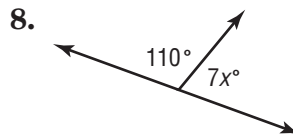
23



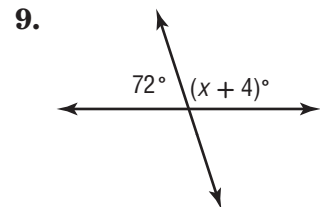
54



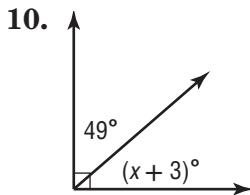
156



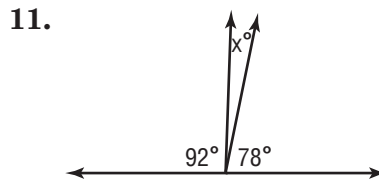
10



104



38



10



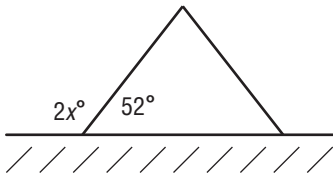
211

13. **ALGEBRA** If $\angle C$ and $\angle D$ are supplementary, and the measure of $\angle D$ is 45° , what is the measure of $\angle C$? **135°**

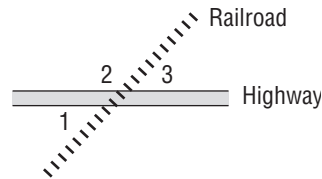
Lesson 2 Problem-Solving Practice

Complementary and Supplementary Angles

1. PYRAMIDS A side view of the Great Pyramid at Giza is shown below. The sides of the pyramid make an angle of 52° with respect to the ground. What is the value of x ? **64**

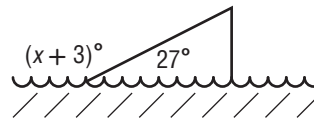


2. RAILROAD A map shows a railroad crossing a highway, as shown below. Which of the numbered angles are supplementary angles? **$\angle 1$ and $\angle 2$; $\angle 2$ and $\angle 3$**

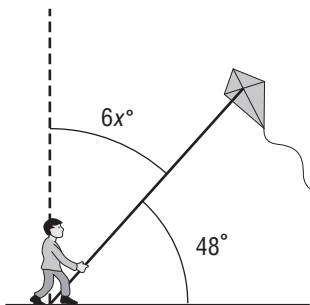


3. RAILROAD Refer to the map shown in Exercise 2. If $m\angle 1$ is 64° , what is the measure of $\angle 2$? **116**

4. SKIING A ski jump makes an angle of 27° with respect to the water as shown below. How are the 27° angle and the unknown angle related? What is the value of x ? **supplementary angles; 150**



5. KITES A kite string makes an angle of 48° with respect to the ground as shown below. The dashed line is vertical and the ground is horizontal. How are the 48° angle and the unknown angle related? What is the value of x ? **complementary angles; 7**



6. GAMES In a game of pick-up-sticks, the last 4 sticks are shown below. Which of the numbered angles are supplementary angles? **$\angle 1$ and $\angle 2$, $\angle 3$ and $\angle 4$, $\angle 5$ and $\angle 6$**

