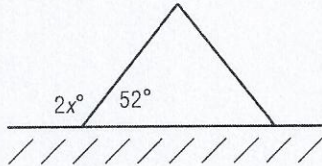


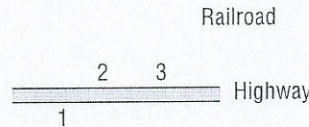
Lesson 2 Problem-Solving Practice

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 ?

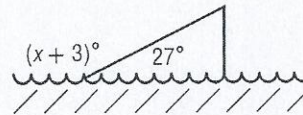


2. RAILROAD A map shows a railroad crossing a highway, as shown below. Which of the numbered angles are supplementary angles?

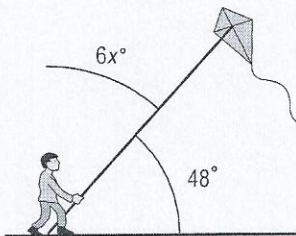


3. RAILROAD Refer to the map shown in Exercise 2. If $m\angle 1$ is 64° , what is the measure of $\angle 2$?

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 ?



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 ?



6. GAMES In a game of pick-up-sticks, the last 4 sticks are shown below. Which of the numbered angles are supplementary angles?

