

# REVIEW: Using Angle Relationships

Name \_\_\_\_\_

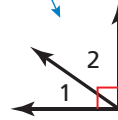
## Key Concept and Vocabulary

- The measures of two complementary angles add to  $90^\circ$ .
- The measures of two supplementary angles add to  $180^\circ$ .

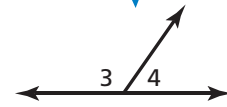


## Visual Model

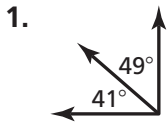
complementary



supplementary

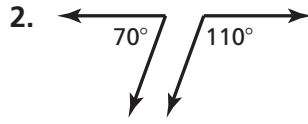


## Skill Examples



$$41^\circ + 49^\circ = 90^\circ$$

complementary



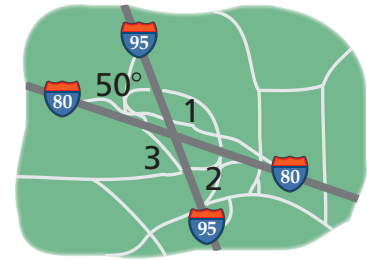
$$70^\circ + 110^\circ = 180^\circ$$

supplementary

## Application Example

3. Find the measures of angles 1, 2, and 3.

∠1 =  $130^\circ$   
 ∠2 =  $50^\circ$   
 ∠3 =  $130^\circ$

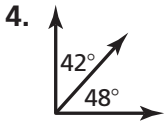


## PRACTICE MAKES PURR-FECT®

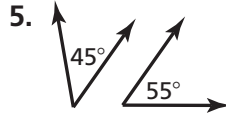


Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

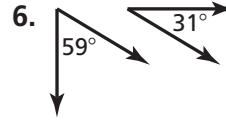
Decide whether the angles are *complementary*, *supplementary*, or *neither*.



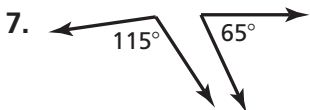
complementary



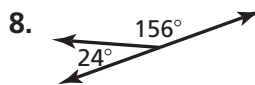
neither



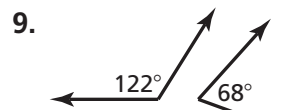
complementary



supplementary

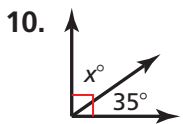


supplementary

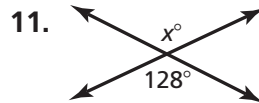


neither

Find the value of  $x$ .



$x = 55$



$x = 128$



$x = 63$

13. **TRIBUTARY** A tributary joins a river at an angle of  $x^\circ$ . Find the value of  $x$ . 53

