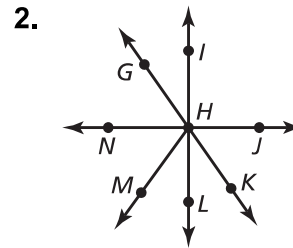
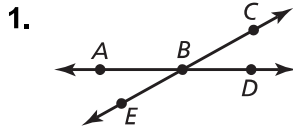
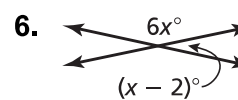
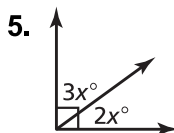
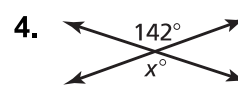
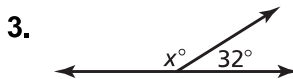


7.1 Practice A

Name two pairs of adjacent angles and two pairs of vertical angles in the figure.



Tell whether the angles are *adjacent* or *vertical*. Then find the value of x .



Draw a pair of vertical angles with the given measure.

7. 40°

8. 75°

9. 120°

10. Draw a pair of adjacent angles with the given description.

- Both angles are obtuse.
- The sum of the angle measures is 180° .
- The sum of the angles measures is 60° .

11. What are the measures of the other three angles formed by the intersection?

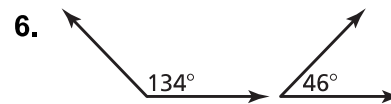
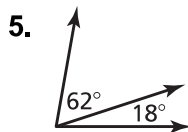
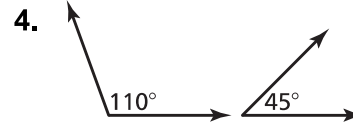


7.2 Practice A

Tell whether the statement is *always*, *sometimes*, or *never* true. Explain.

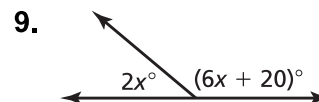
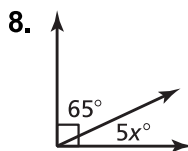
1. If x and y are supplementary angles, then y is acute.
2. If x and y are complementary angles, then x is obtuse.

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



7. Angle x and angle y are complementary. Angle x is supplementary to a 128° angle. What are the measures of angle x and angle y ?

Tell whether the angles are *complementary* or *supplementary*. Then find the value of x .



Draw a pair of adjacent supplementary angles so that one angle has the given measure.

10. 50°

11. 110°

12. 135°

13. Two angles have the same measure. What are their measures if they are also complementary angles? supplementary angles?