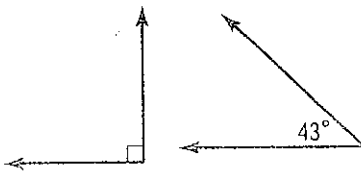


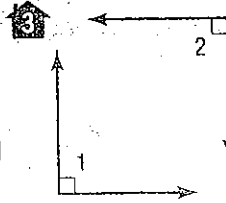
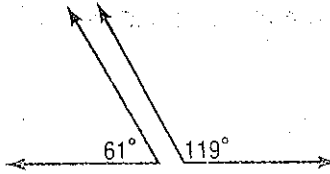
Identify each pair of angles as **complementary**, **supplementary**, or **neither**.

(Examples 1 and 2)

1.

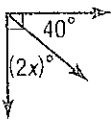


2.

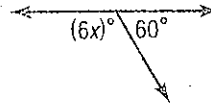


Find the measure of x in each figure. (Examples 3 and 4)

4.



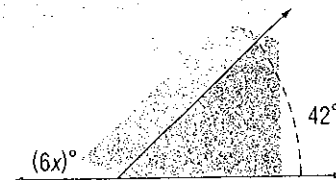
5.



6. $\angle A$ and $\angle B$ are complementary angles. The measure of $\angle B$ is $(4x)^\circ$, and the measure of $\angle A$ is 50° . What is the value of x ? (Example 5)

A skateboard ramp forms a 42° angle as shown.

Find the value of x .

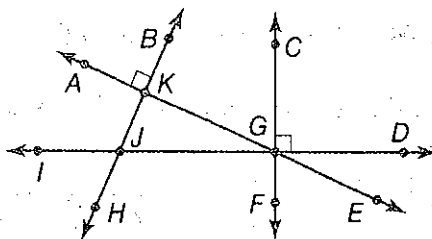


Use the figure at the right to name the following.

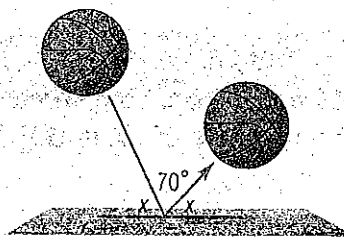
8. a pair of supplementary angles

9. a pair of complementary angles

10. a pair of vertical angles



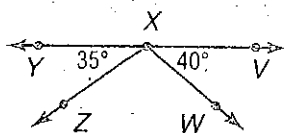
11. **Reason Inductively** When a basketball hits a hard, level surface, it bounces off at the same angle at which it hits. Use the figure to find the angle at which the ball hit the floor.



12. **Persevere with Problems** Angles E and F are complementary. If $m\angle E = x - 10$ and $m\angle F = x + 2$, find the measure of each angle.

13.

In the figure below, $m\angle YXZ = 35^\circ$ and $m\angle WXV = 40^\circ$. What is $m\angle ZXW$?



(A) 180°

(C) 75°

(B) 105°

(D) 15°

14.

Which angle pairs are not supplementary?

