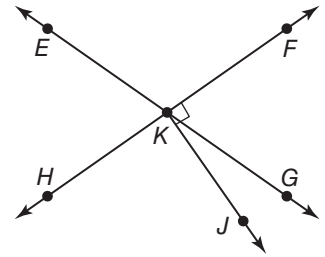


# 1-5 Skills Practice

## Angle Relationships

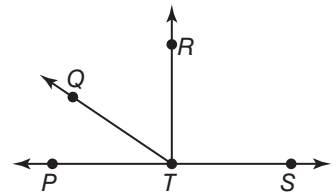
For Exercises 1–6, use the figure at the right. Name an angle or angle pair that satisfies each condition.



1. Name two acute vertical angles.
2. Name two obtuse vertical angles.
3. Name a linear pair.
4. Name two acute adjacent angles.
5. Name an angle complementary to  $\angle EKH$ .
6. Name an angle supplementary to  $\angle FKG$ .
7. Find the measures of an angle and its complement if one angle measures 24 degrees more than the other.
8. The measure of the supplement of an angle is 36 less than the measure of the angle. Find the measures of the angles.

**ALGEBRA** For Exercises 9–10, use the figure at the right.

9. If  $m\angle RTS = 8x + 18$ , find the value of  $x$  so that  $\overrightarrow{TR} \perp \overrightarrow{TS}$ .
10. If  $m\angle PTQ = 3y - 10$  and  $m\angle QTR = y$ , find the value of  $y$  so that  $\angle PTR$  is a right angle.



**Determine whether each statement can be assumed from the figure. Explain.**

11.  $\angle WZU$  is a right angle.
12.  $\angle YZU$  and  $\angle UZV$  are supplementary.
13.  $\angle VZU$  is adjacent to  $\angle YZX$ .

