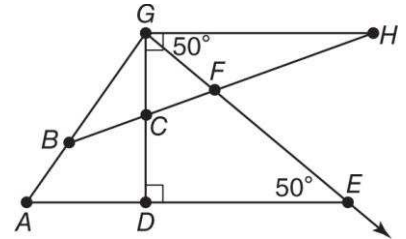


# 1-5 Practice

## Angle Relationships

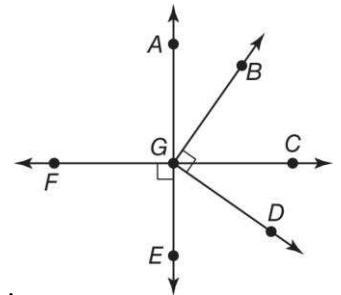
Name an angle or angle pair that satisfies each condition.

1. Name two obtuse vertical angles.
2. Name a linear pair with vertex  $B$ .
3. Name an angle not adjacent to, but complementary to  $\angle FGC$ .
4. Name an angle adjacent and supplementary to  $\angle DCB$ .
5. **ALGEBRA** Two angles are complementary. The measure of one angle is 21 more than twice the measure of the other angle. Find the measures of the angles.
6. **ALGEBRA** If a supplement of an angle has a measure 78 less than the measure of the angle, what are the measures of the angles?



**ALGEBRA:** For Exercises 7-9, use the figure at the right. (#8, #9 are independent of each other)

7. Name a pair of complementary angles. Name a pair of supplementary angles.
8. If  $m\angle AGB = (x^2 + 5x)^\circ$  and  $m\angle CGB = (3x + 70)^\circ$  find the  $m\angle AGB$



9. If  $m\angle CGB = (x + 8)^\circ$  and  $m\angle FGB = (11x + 4)^\circ$  find the  $m\angle CGD$

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

10.  $\angle NQO$  and  $\angle OQP$  are complementary.
11.  $\angle SRQ$  and  $\angle QRP$  is a linear pair.
12.  $\angle MQN$  and  $\angle MQR$  are vertical angles.

