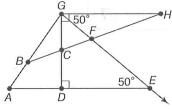
## 1-5 Practice

## **Angle Relationships**

Name an angle or angle pair that satisfies each condition.

- 1. Name two obtuse vertical angles. LBGH, LHFG
- **2.** Name a linear pair whose vertex is B.  $\angle ABC_1 \angle CBC$
- 3. Name an angle not adjacent to, but complementary to ∠FGC. /FED

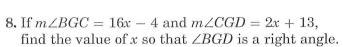


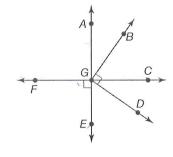
- 4. Name an angle adjacent and supplementary to ∠DCB. ∠DCF
- **5. ALGEBRA** Two angles are complementary. The measure of one angle is 21 more than twice the measure of the other angle. Find the measures of the angles. *73*, *7*
- **6. ALGEBRA** If a supplement of an angle has a measure 78 less than the measure of the angle, what are the measures of the angles?

4.5

ALGEBRA For Exercises 7–8, use the figure at the right.

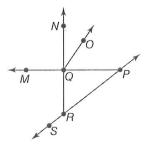
7. If  $m \angle FGE = 5x + 10$ , find the value of x so that  $\overrightarrow{FC} \perp \overrightarrow{AE}$ .





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

- 9. ∠NQO and ∠OQP are complementary. NO, ∠ NQP is not 90
- 10. ∠SRQ and ∠QRP is a linear pair. yes, they are odjacen+
- 11. ∠MQN and ∠MQR are vertical angles. No they overadjacent



**12. STREET MAPS** Darren sketched a map of the cross streets nearest to his home for his friend Miguel. Describe two different angle relationships between the streets.

Dolive & main are complementary Bracon I main

