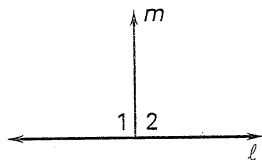


**Practice C**

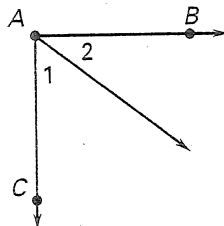
For use with pages 136-141

What can you conclude from the given information?  
State the reason for your conclusion.

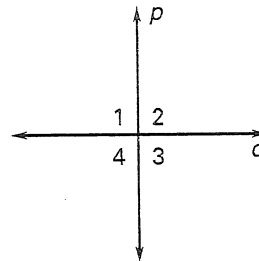
1.  $\angle 1 \cong \angle 2$



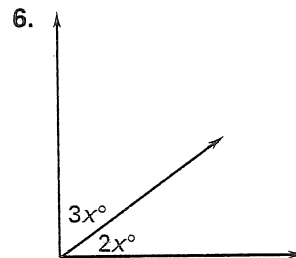
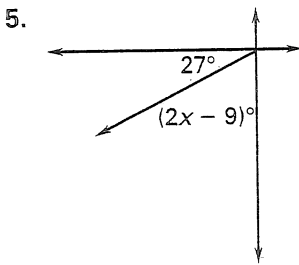
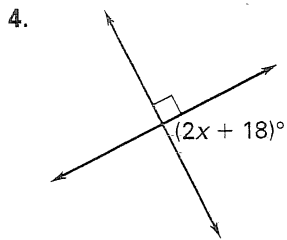
2.  $\vec{AB} \perp \vec{AC}$



3.  $p \perp q$



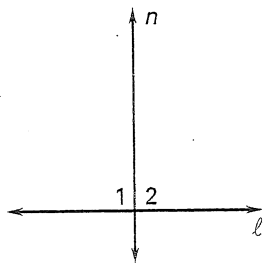
Find the value of  $x$ .



7. Complete the two-column proof of Theorem 3.1.

Given:  $\angle 1 \cong \angle 2$ ,  $\angle 1$  and  $\angle 2$  are a linear pair

Prove:  $\ell \perp n$



**Statements**

1.  $\angle 1 \cong \angle 2$
2.  $m\angle 1 = m\angle 2$
3.  $\angle 1$  and  $\angle 2$  are a linear pair
4.  $\angle 1$  and  $\angle 2$  are supplementary
5.  $m\angle 1 + m\angle 2 = 180^\circ$
6.  $m\angle 1 + m\angle 1 = 180^\circ$
7.  $2(m\angle 1) = 180^\circ$
8.  $m\angle 1 = 90^\circ$
9.  $\angle 1$  is a right  $\angle$
10.  $\ell \perp n$

**Reasons**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

8. Write a \_\_\_\_\_ proof of Theorem 3.2.

Given:  $\vec{FG} \perp \vec{FH}$

Prove:  $\angle 1$  and  $\angle 2$  are complementary

