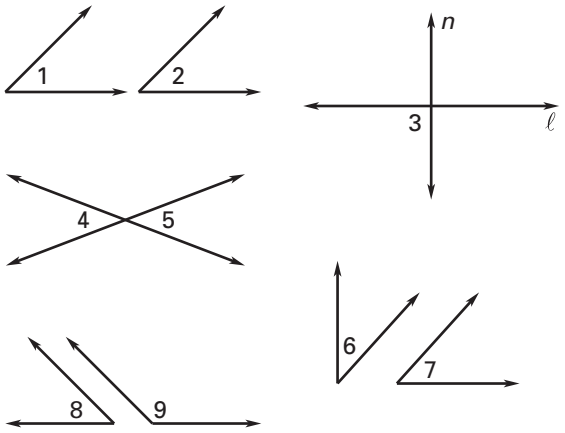
LESSON 3.2

NAME _____ DATE _____

Practice A

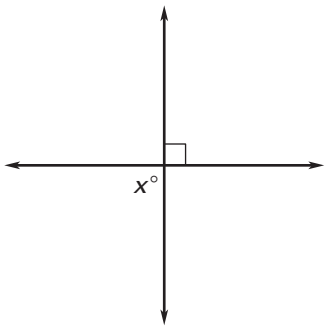
For use with pages 136–141

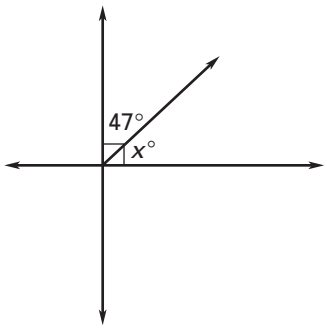
State the reason for the conclusion.

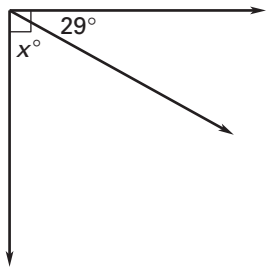


1. Given: $\angle 1 \cong \angle 2$
   Conclusion: $m\angle 1 = m\angle 2$
2. Given: $\ell \perp n$
   Conclusion: $\angle 3$ is a right angle
3. Given: $\angle 4$ and $\angle 5$ are vertical angles
   Conclusion: $\angle 4 \cong \angle 5$
4. Given: $\angle 6$ and $\angle 7$ are complementary angles
   Conclusion: $m\angle 6 + m\angle 7 = 90°$
5. Given: $\angle 8$ and $\angle 9$ are supplementary angles
   Conclusion: $m\angle 8 + m\angle 9 = 180°$

Find the value of *x*.

6. 

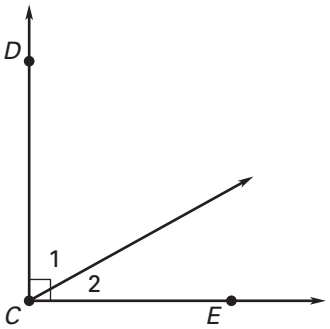
7. 

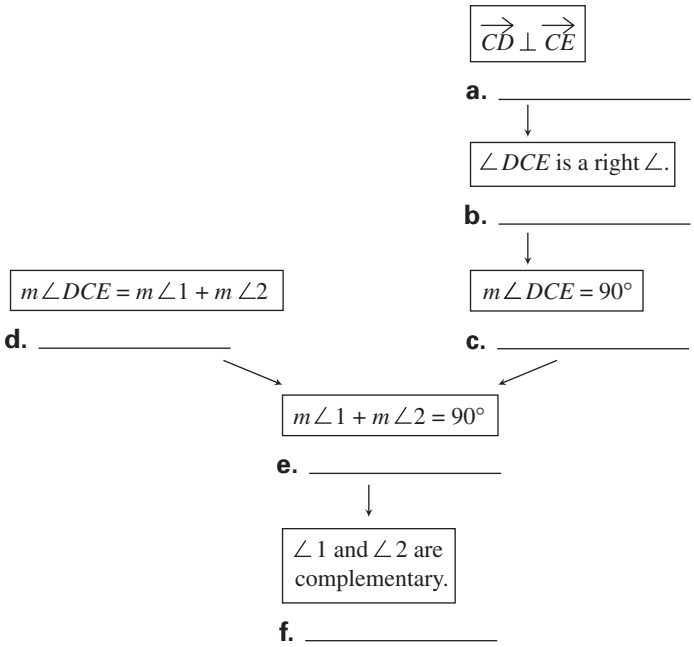
8. 

9. Complete the flow proof of Theorem 3.2.

   Given: $\overrightarrow{CD} \perp \overrightarrow{CE}$

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





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