

Name \_\_\_\_\_

Date \_\_\_\_\_

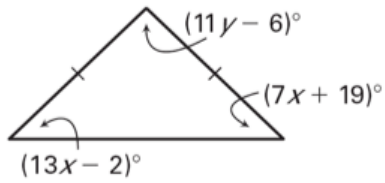
**LESSON 4.7**

**Practice C**

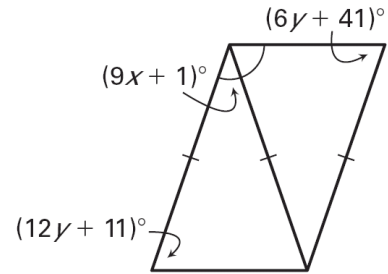
For use with pages 264-270

**Find the values of  $x$  and  $y$ .**

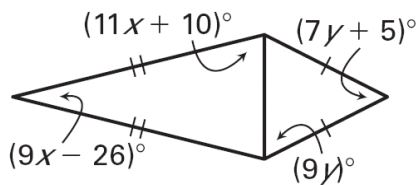
1.



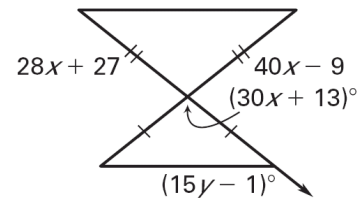
2.



3.

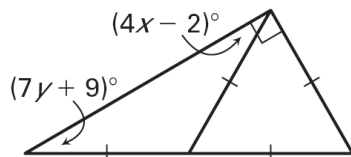


4.

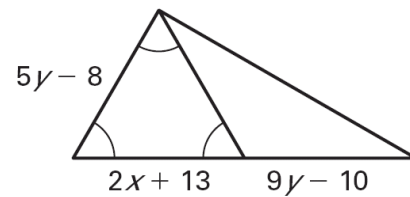


**Find the values of  $x$  and  $y$ , if possible. If not possible, *explain* your reasoning.**

5.

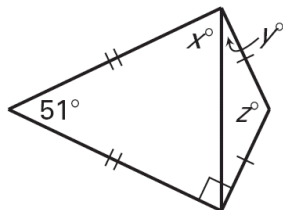


6.

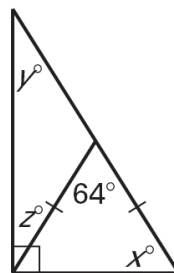


**Find the values of  $x$ ,  $y$ , and  $z$ .**

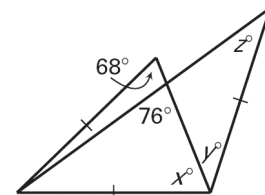
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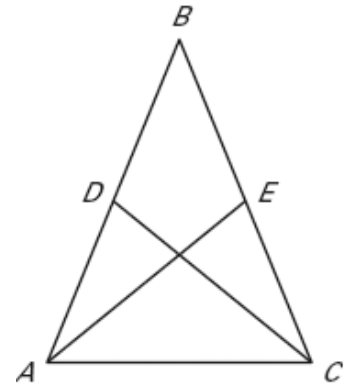
8.



9.

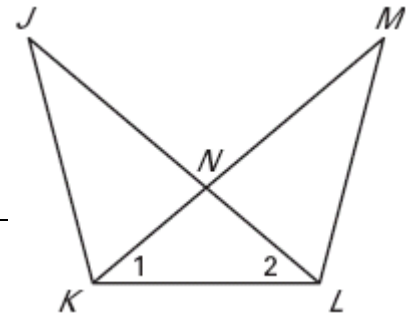


10. **GIVEN:**  $\angle BAC \cong \angle BCA$ ,  $\overline{BD} \cong \overline{BE}$   
**PROVE:**  $\angle BDC \cong \angle BEA$



Statements	Reasons

11. **GIVEN:**  $\overline{JN} \cong \overline{MN}$ ,  $\angle 1 \cong \angle 2$   
**PROVE:**  $\overline{JL} \cong \overline{MK}$



Statements	Reasons
1. _____	1. Given
2. $\overline{NK} \cong \overline{NL}$	2. _____
3. _____	3. Definition of $\cong$ segments
4. _____	4. Given
5. $JN = MN$	5. _____
6. _____	6. Addition property of equality
7. $JN + NL = JL$ $MN + NK = MK$	7. _____
8. _____	8. Substitution property of equality
9. $\overline{JL} \cong \overline{MK}$	9. _____
10. _____	10. Reflexive property of congruence
11. $\triangle JKL \cong \triangle MLK$	11. _____
12. $\overline{JL} \cong \overline{MK}$	12. _____