

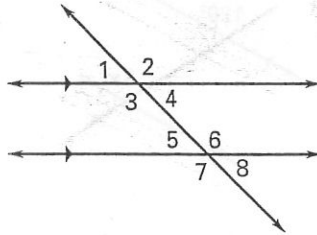
**LESSON**  
**3.2**

**Practice A**

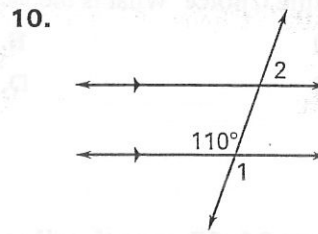
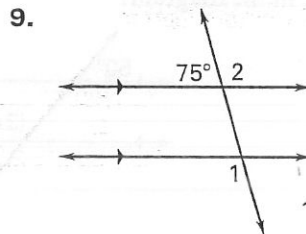
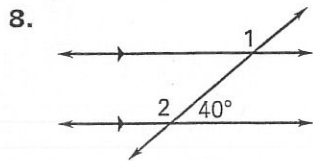
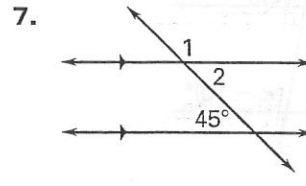
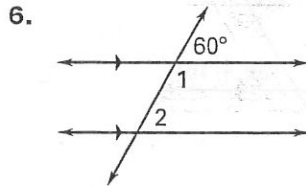
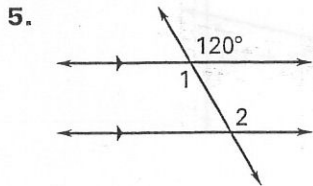
For use with the lesson "Use Parallel Lines and Transversals"

What postulate or theorem justifies the statement about the diagram?

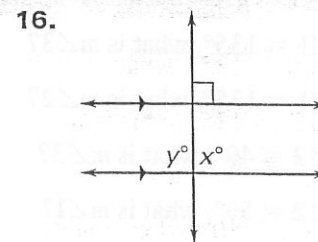
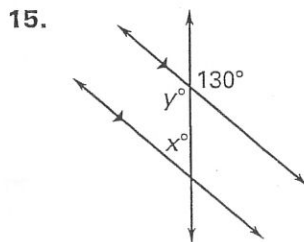
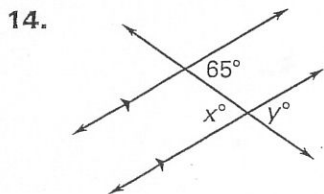
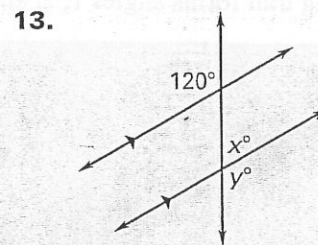
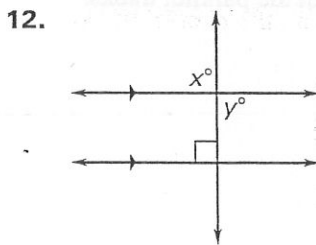
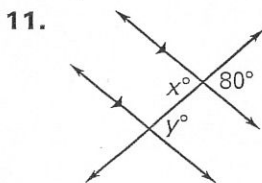
1.  $\angle 1 \cong \angle 5$
2.  $\angle 4$  and  $\angle 6$  are supplementary.
3.  $\angle 4 \cong \angle 5$
4.  $\angle 2 \cong \angle 7$



Find  $m\angle 1$  and  $m\angle 2$ .



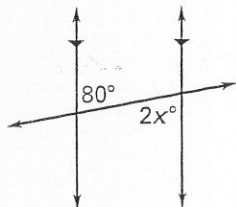
Find the values of  $x$  and  $y$ .



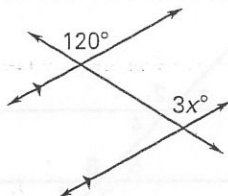
**LESSON**  
**3.2**
**Practice A** *continued*  
 For use with the lesson "Use Parallel Lines and Transversals"

 Find the value of  $x$ .

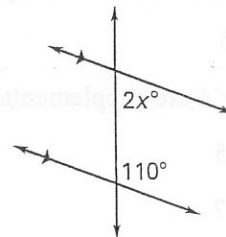
17.



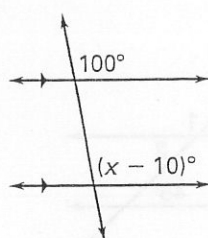
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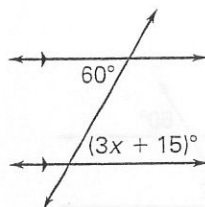
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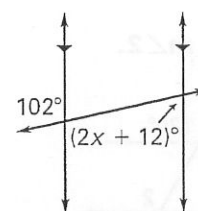
20.



21.

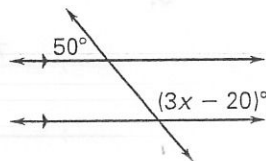


22.


 23. Multiple Choice What is the value of  $x$  in the diagram?

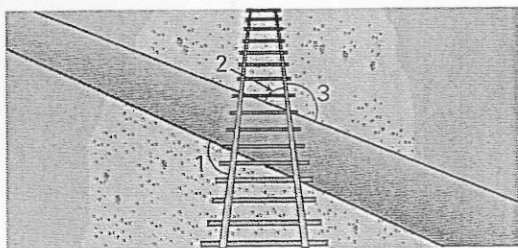
- A. 40
- 
- C. 60

- B. 50
- 
- D. 70



In Exercises 24–27, use the diagram.

A hiking trail crosses a set of train tracks as shown in the diagram. The parallel edges of the hiking trail forms angles 1, 2, and 3 with the parallel tracks.



24. If
- $m\angle 1 = 135^\circ$
- , what is
- $m\angle 3$
- ?
- 
25. If
- $m\angle 1 = 135^\circ$
- , what is
- $m\angle 2$
- ?
- 
26. If
- $m\angle 2 = 40^\circ$
- , what is
- $m\angle 3$
- ?
- 
27. If
- $m\angle 2 = 50^\circ$
- , what is
- $m\angle 1$
- ?