LESSON 1.6

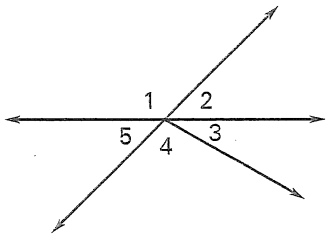
NAME _____ DATE _____

Practice B

For use with pages 44–50

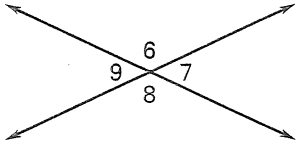
Use the figure at the right.

1. Are $\angle 1$ and $\angle 2$ a linear pair?
2. Are $\angle 4$ and $\angle 5$ a linear pair?
3. Are $\angle 3$ and $\angle 1$ vertical angles?
4. Are $\angle 2$ and $\angle 5$ vertical angles?



Use the figure at the right.

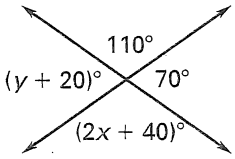
5. If $m\angle 6 = 51°$, then $m\angle 7 =$ ___?___.
6. If $m\angle 8 = 103°$, then $m\angle 6 =$ ___?___.
7. If $m\angle 9 = 136°$, then $m\angle 8 =$ ___?___.
8. If $m\angle 7 = 53°$, then $m\angle 9 =$ ___?___.

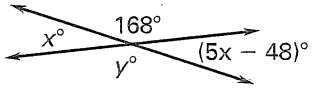


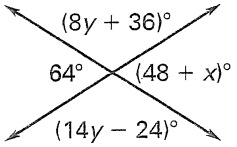
In Exercises 9–12, assume $\angle A$ and $\angle B$ are complementary and $\angle B$ and $\angle C$ are supplementary.

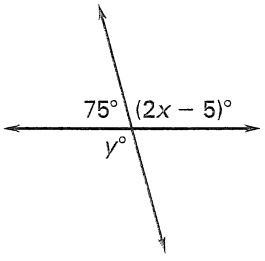
9. If $m\angle A = 48°$, then $m\angle B =$ ___?___ and $m\angle C =$ ___?___.
10. If $m\angle B = 83°$, then $m\angle A =$ ___?___ and $m\angle C =$ ___?___.
11. If $m\angle C = 127°$, then $m\angle B =$ ___?___ and $m\angle A =$ ___?___.
12. If $m\angle A = 45°$, then $m\angle B =$ ___?___ and $m\angle C =$ ___?___.

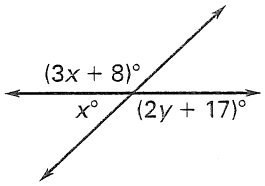
Find the value(s) of the variable(s).

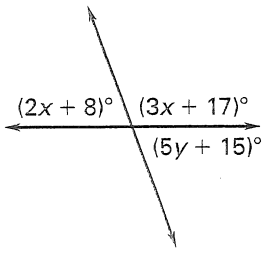
13. 

14. 

15. 

16. 

17. 

18. 

In Exercises 19 and 20, assume that $\angle A$ is supplementary to $\angle B$ and complementary to $\angle C$. Determine $m\angle A$, $m\angle B$, and $m\angle C$.

19. $m\angle A = x°$, $m\angle B = (x + 40)°$, $m\angle C = (x - 50)°$
20. $m\angle A = x°$, $m\angle B = (2x)°$, $m\angle C = (x - 30)°$