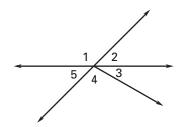
Practice A

For use with pages 44-50

Use the figure at the right.

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



Use the figure at the right.

7. If
$$m \angle 6 = 78^{\circ}$$
, then $m \angle 7 = ?$.

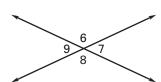
8. If
$$m \angle 8 = 94^{\circ}$$
, then $m \angle 6 = _?$.

9. If
$$m \angle 9 = 124^{\circ}$$
, then $m \angle 8 = ?$.

10. If
$$m \angle 7 = 47^{\circ}$$
, then $m \angle 9 = ?$.

11. If
$$m \angle 8 = 158^{\circ}$$
, then $m \angle 9 = ?$.

12. If
$$m \angle 7 = 15^{\circ}$$
, then $m \angle 6 = ?$.



In Exercises 13–16, assume $\angle A$ and $\angle B$ are complementary and $\angle B$ and $\angle C$ are supplementary.

13. If
$$m \angle A = 42^\circ$$
, then $m \angle B = \underline{\ \ }$ and $m \angle C = \underline{\ \ }$.

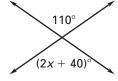
14. If
$$m \angle B = 78^{\circ}$$
, then $m \angle A = \underline{?}$ and $m \angle C = \underline{?}$.

15. If
$$m \angle A = 17^{\circ}$$
, then $m \angle B = \underline{}$ and $m \angle C = \underline{}$.

16. If
$$m \angle B = 45^{\circ}$$
, then $m \angle A = \underline{?}$ and $m \angle C = \underline{?}$.

Find the value of the variable.

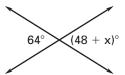




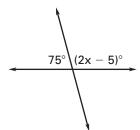
18.



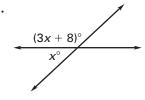
19.



20.



21.



22.

