

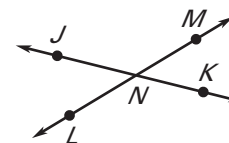
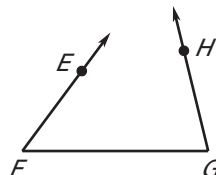
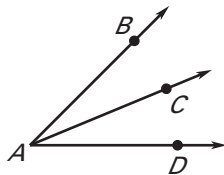
LESSON 1.5 Practice A
For use with pages 35–41

Tell whether the indicated angles are adjacent.

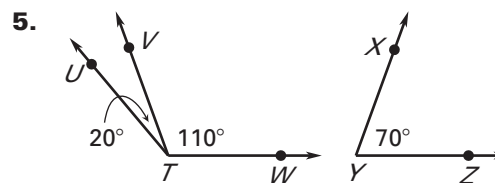
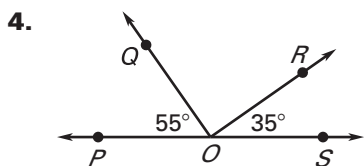
1. $\angle BAC$ and $\angle CAD$

2. $\angle EFG$ and $\angle HGF$

3. $\angle JNM$ and $\angle LNK$



Name a pair of complementary angles and a pair of supplementary angles.



$\angle 1$ and $\angle 2$ are complementary angles. Given the measure of $\angle 1$, find $m\angle 2$.

6. $m\angle 1 = 52^\circ$

7. $m\angle 1 = 76^\circ$

8. $m\angle 1 = 19^\circ$

9. $m\angle 1 = 63^\circ$

$\angle 1$ and $\angle 2$ are supplementary angles. Given the measure of $\angle 1$, find $m\angle 2$.

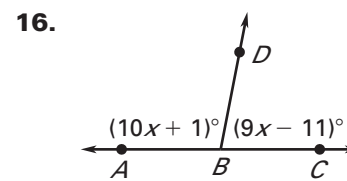
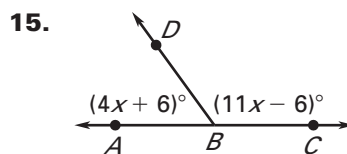
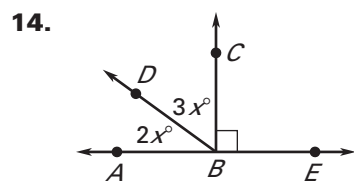
10. $m\angle 1 = 147^\circ$

11. $m\angle 1 = 94^\circ$

12. $m\angle 1 = 38^\circ$

13. $m\angle 1 = 121^\circ$

Find $m\angle ABD$ and $m\angle DBC$.



Use the diagram below. Tell whether the angles are *vertical angles*, a *linear pair*, or *neither*.

17. $\angle 1$ and $\angle 2$

18. $\angle 1$ and $\angle 3$

19. $\angle 2$ and $\angle 4$

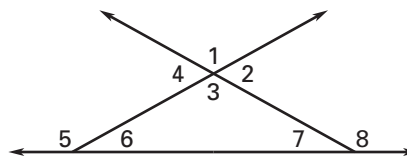
20. $\angle 3$ and $\angle 4$

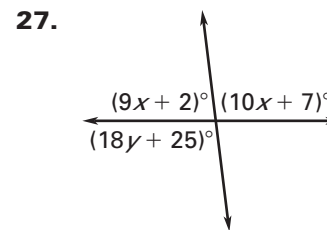
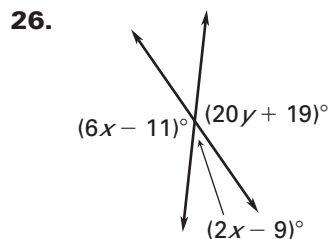
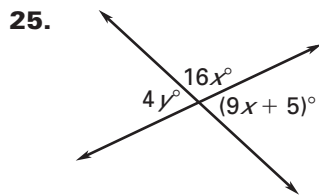
21. $\angle 5$ and $\angle 6$

22. $\angle 5$ and $\angle 7$

23. $\angle 6$ and $\angle 8$

24. $\angle 7$ and $\angle 8$



LESSON
1.5**Practice A** *continued*
For use with pages 35–41Find the values of x and y . $\angle A$ and $\angle B$ are complementary. Find $m\angle A$ and $m\angle B$.

28. $m\angle A = x^\circ$
 $m\angle B = (x - 30)^\circ$

29. $m\angle A = (5x + 4)^\circ$
 $m\angle B = (7x - 10)^\circ$

30. $m\angle A = (4x - 2)^\circ$
 $m\angle B = (11x + 17)^\circ$

31. $m\angle A = (6x - 9)^\circ$
 $m\angle B = (8x + 1)^\circ$

 $\angle A$ and $\angle B$ are supplementary. Find $m\angle A$ and $m\angle B$.

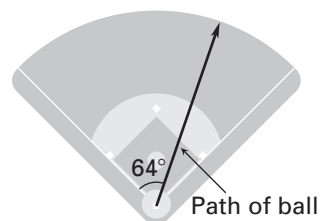
32. $m\angle A = x^\circ$
 $m\angle B = 3x^\circ$

33. $m\angle A = (7x - 3)^\circ$
 $m\angle B = (x - 1)^\circ$

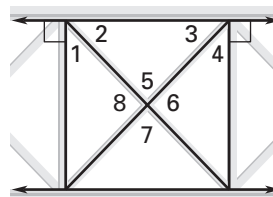
34. $m\angle A = (11x + 2)^\circ$
 $m\angle B = (8x + 7)^\circ$

35. $m\angle A = (13x + 10)^\circ$
 $m\angle B = (12x + 20)^\circ$

36. **Baseball** The foul lines of a baseball field intersect at home plate to form a right angle. You hit a baseball whose path forms an angle of 64° with the third base foul line (see figure at right). What is the angle between the first base foul line and the path of the baseball?



Stair Railing A stair railing is designed as shown in the figure. Use the angles identified in the figure to name two pairs of the indicated type of angle pair.



37. Complementary angles
38. Supplementary angles
39. Vertical angles
40. Linear pair
41. Adjacent angles