

Answers for Lesson 7-1, pp. 305–306 Exercises

1. No; they do not share a common side.
2. Yes; they share a common vertex and a common side, but no common interior points.
3. No; they do not share a common vertex.
4. No; only angles with measures less than 90° have complements.
- 5–7. Answers may vary. Samples are given.
5. $\angle MRQ$ and $\angle NRP$; $\angle NRP$ and $\angle QRP$; 80°
6. $\angle CKJ$ and $\angle DKH$; $\angle CKG$ and $\angle GKH$; 90°
7. $\angle BDC$ and $\angle TDY$; $\angle CDV$ and $\angle VDY$; 40°
8. 166°
9. 156°
10. 35°
11. 141°
12. 64°
13. $m\angle 1 = 152^\circ$; $m\angle 2 = 28^\circ$;
 $m\angle 3 = 62^\circ$; $m\angle 4 = 90^\circ$
14. $m\angle 1 = 46^\circ$; $m\angle 2 = 90^\circ$;
 $m\angle 3 = 44^\circ$; $m\angle 4 = 136^\circ$
15. $m\angle 1 = 29^\circ$; $m\angle 2 = 119^\circ$;
 $m\angle 3 = 61^\circ$; $m\angle 4 = 29^\circ$;
 $m\angle 5 = 61^\circ$
16. 50° right angles; complementary
17. 58° ; 148°
18. 13° ; 103°
19. 4.1° ; 94.1°
20. 47.7° ; 137.7°
21. 83.9° ; 173.9°
22. No; they do not share a common side.
23. No; they are adjacent.
- 24–25. Answers may vary. Samples are given.
24. $\angle 1$ and $\angle 2$
25. $\angle 5$ and $\angle 7$

