

Answer Key

Chapter 9

Lesson 9.6

Practice A

1. A
2. B
3. C
4. B
5. A
6. D
7. 8.9
8. 48.2°
9. 41.8°
10. 24.8°
11. 68.2°
12. 11.5°
13. 1.1°
14. 47.2°
15. 33.0°
16. 29.3°
17. 56.3°
18. $BC \approx 8.9$, $m\angle A \approx 48.2^\circ$, $m\angle B \approx 41.8^\circ$
19. $RT \approx 13.6$, $m\angle T \approx 36.0^\circ$, $m\angle R \approx 54.0^\circ$
20. $ML \approx 6.6$, $MN \approx 12.4$, $m\angle L = 62^\circ$
21. $m\angle T = 42^\circ$, $PT \approx 14.4$, $TQ \approx 19.4$
22. $m\angle D = 71^\circ$, $EF \approx 61.0$, $FD \approx 64.5$
23. $m\angle J = 49^\circ$, $IK \approx 19.6$, $IJ \approx 25.9$
24. about 75.5°

Chapter 9

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Practice B

1. 16.6
2. 65.0°
3. 25.0°
4. 13.9°
5. 60.0°
6. 51.7°
7. 4.6°
8. 19.9°
9. 41.0°
10. 22.3°
11. 69.4°
12. $m\angle P = 53^\circ$, $PQ \approx 13.2$, $QR \approx 17.6$
13. $m\angle P \approx 58.6^\circ$, $m\angle N \approx 31.4^\circ$, $PN \approx 21.1$
14. $TU \approx 21.9$, $m\angle S \approx 72.3^\circ$, $m\angle U \approx 17.7^\circ$
15. $m\angle V = 39^\circ$, $DM \approx 11.3$, $DV \approx 18.0$
16. $m\angle T = 66^\circ$, $TR \approx 14.7$, $AT \approx 36.1$
17. $UM \approx 20.6$, $m\angle U \approx 42.7^\circ$, $m\angle E \approx 47.3^\circ$
18. about 7.5 ft
19. about 84.02 ft
20. about 499.30 ft