

2. $H = 15^\circ$, $f = 55.5$, $g = 64.5$

4. $S = 62^\circ$, $r = 6.6$, $s = 7$

6. $D = 83^\circ$, $b = 12.8$, $c = 28.7$

8. left: about 20 ft,
right: about 49.2
ft; 113°

10. $B = 48^\circ$, $C = 24^\circ$, $c = 3.9$

12. $B = 18^\circ$, $C = 135^\circ$, $c = 27.8$

14. $B = 14^\circ$, $C = 21^\circ$, $c = 8.7$

16. no solution

18. about 41 ft

20. $B = 52^\circ$, $C = 102^\circ$, $c = 11.2$ and
 $B = 128^\circ$, $C = 26^\circ$, $c = 5.0$

22. $B = 84^\circ$, $C = 49^\circ$, $c = 25.8$ and
 $B = 96^\circ$, $C = 37^\circ$, $c = 20.6$

24. $B = 30^\circ$, $C = 132^\circ$, $c = 19.2$ and
 $B = 150^\circ$, $C = 12^\circ$, $c = 5.4$

26. 18.3 mi

28. $X = 11^\circ$, $Y = 137^\circ$, $Z = 32^\circ$

30. $K = 23^\circ$, $L = 32^\circ$, $j = 50.7$

32. $F = 38^\circ$, $G = 52^\circ$, $H = 90^\circ$

34. $L = 131^\circ$, $M = 15^\circ$, $N = 34^\circ$

36. 23.5 ft

38. 312.2 in^2

40. 167.6 mm^2

42. 2895.1 mi^2

44. a. 163.9 ft^2

b. 66%

46. 121.5 yd^2

48. 119.4 m^2

50. 128.7 cm^2

87. E

88. G