

Answer Key

Practice B

1. no triangle 2. one triangle 3. two triangles
4. one triangle
5. $C = 110^\circ$, $b \approx 22.4$, $c \approx 24.4$
6. $B \approx 21.4^\circ$, $C \approx 116.6^\circ$, $c \approx 29.4$
7. $C = 35^\circ$, $b \approx 18.5$, $c \approx 10.8$
8. $A = 38^\circ$, $a \approx 22.0$, $c \approx 34.0$
9. no solution
10. $A \approx 40.9^\circ$, $C \approx 84.1^\circ$, $c \approx 30.4$
11. $B \approx 71.8^\circ$, $C \approx 78.2^\circ$, $c \approx 39.2$; or
 $B \approx 108.2^\circ$, $C \approx 41.8^\circ$, $c \approx 26.7$
12. 2290 units² 13. 10.4 units²
14. 24.3 units² 15. 23.8 units²
16. 361 units² 17. 24.3 units²
18. 1680 units² 19. about \$5,680
20. about 550 feet