

SM3H 7.1-7.3 review answers

1. $\angle A = 89^\circ, \angle B = 61^\circ, \angle C = 30^\circ, a \approx 24.0 \text{ ft}, b \approx 21.0 \text{ ft}, c = 12 \text{ ft}$
2. $\angle A \approx 58.4^\circ, \angle B \approx 96.4^\circ, \angle C \approx 25.2^\circ, a = 24 \text{ m}, b = 28 \text{ m}, c = 12 \text{ m}$
3. $\angle A \approx 25.9^\circ, \angle B = 51^\circ, \angle C \approx 103.1^\circ, a = 9 \text{ mi}, b = 16 \text{ mi}, c \approx 20.1 \text{ mi}$
4. $\angle A \approx 59^\circ, \angle B = 91^\circ, \angle C \approx 30^\circ, a = 24 \text{ yd}, b \approx 28 \text{ yd}, c = 14 \text{ yd}$
5. no triangle
6. $\angle A_1 = 26^\circ, \angle B_1 \approx 111.9^\circ, \angle C_1 \approx 42.1^\circ, a_1 = 17 \text{ ft}, b_1 \approx 36.0, c_1 = 26 \text{ ft}$
 $\angle A_2 = 26^\circ, \angle B_2 \approx 16.1^\circ, \angle C_2 \approx 137.9^\circ, a_2 = 17 \text{ ft}, b_2 \approx 10.8, c_2 = 26 \text{ ft}$
7. $\angle A = 30^\circ, \angle B = 89^\circ, \angle C = 61^\circ, a = 4 \text{ yd}, b \approx 8.0 \text{ yd}, c \approx 7.0 \text{ yd}$
8. $\angle A \approx 88.1^\circ, \angle B \approx 60.5^\circ, \angle C \approx 31.4^\circ, a = 21.7 \text{ m}, b = 18.9 \text{ m}, c = 11.3 \text{ m}$