

Solutions – Sine Rule & Cosine Rule (A)

In triangle ABC, side AC = 5 cm and side BC = 20 cm. $\angle ACB = 71.3^\circ$. Find side AB to one decimal place.

19.0 cm

In triangle ABC, side AC = 12 cm and side AB = 22 cm. Side BC = 15 cm. Find $\angle BAC$ to one decimal place.

40.2°

In triangle ABC, side AC = 14 cm and side AB = 25 cm. $\angle BAC = 48.9^\circ$. Find side BC to one decimal place.

19.0 cm

In triangle ABC, side BC = 13.7 cm and side AC = 14.0 cm. $\angle ABC = 89^\circ$. Find $\angle BAC$ to one decimal place.

78°

In triangle ABC, $\angle ABC = 51^\circ$ and $\angle BAC = 33^\circ$. Side AC = 10.9 cm. Find side BC to one decimal place.

7.6 cm

Solutions – Sine Rule & Cosine Rule (B)

In triangle ABC, side AC = 6 cm and side AB = 17 cm. $\angle BAC = 40.1^\circ$. Find side BC to one decimal place.

13.0 cm

In triangle ABC, $\angle ABC = 75^\circ$ and $\angle BAC = 95^\circ$. Side AC = 10.6 cm. Find side BC to one decimal place.

11.0 cm

In triangle ABC, side AC = 23 cm and side BC = 16 cm. $\angle ACB = 36.8^\circ$. Find side AB to one decimal place.

14.0 cm

In triangle ABC, side AC = 18 cm and side AB = 9 cm. Side BC = 25 cm. Find $\angle BAC$ to one decimal place.

132.8°

In triangle ABC, side AC = 20.1 cm and side AB = 20.7 cm. $\angle BAC = 55^\circ$. Find $\angle ABC$ to one decimal place.

61°

Solutions – Sine Rule & Cosine Rule (C)

In triangle ABC, $\angle BAC = 35^\circ$ and $\angle ACB = 45^\circ$. Side BC = 9.2 cm. Find side AB to one decimal place.

11.3 cm

In triangle ABC, side AC = 10 cm and side BC = 18 cm. Side AB = 14 cm. Find $\angle ACB$ to one decimal place.

50.7°

In triangle ABC, side AB = 27.9 cm and side BC = 18.7 cm. $\angle ABC = 52^\circ$. Find $\angle ACB$ to one decimal place.

86°

In triangle ABC, $\angle BAC = 44^\circ$ and $\angle ACB = 92^\circ$. Side BC = 13.2 cm. Find side AB to one decimal place.

19.0 cm

In triangle ABC, side AC = 14 cm and side BC = 12 cm. $\angle ACB = 49.3^\circ$. Find side AB to one decimal place.

11.0 cm

Solutions – Sine Rule & Cosine Rule (D)

In triangle ABC, side AB = 19.4 cm and side BC = 20.1 cm. $\angle ABC = 94^\circ$. Find $\angle ACB$ to one decimal place.

42°

In triangle ABC, side AB = 11.0 cm and side BC = 12.1 cm. $\angle ABC = 79^\circ$. Find $\angle ACB$ to one decimal place.

47°

In triangle ABC, $\angle ABC = 88^\circ$ and $\angle BAC = 36^\circ$. Side AC = 26.0 cm. Find side BC to one decimal place.

15.3 cm

In triangle ABC, side AB = 8 cm and side BC = 18 cm. $\angle ABC = 84.6^\circ$. Find side AC to one decimal place.

19.0 cm

In triangle ABC, side AC = 11 cm and side AB = 11 cm. Side BC = 12 cm. Find $\angle BAC$ to one decimal place.

66.1°

Solutions – Sine Rule & Cosine Rule (E)

In triangle ABC, side AB = 20 cm and side BC = 15 cm. Side AC = 7 cm. Find $\angle ABC$ to one decimal place.

16.3°

In triangle ABC, side AC = 25 cm and side AB = 19 cm. $\angle BAC = 30.7^\circ$. Find side BC to one decimal place.

13.0 cm

In triangle ABC, $\angle BAC = 100^\circ$ and $\angle ACB = 40^\circ$. Side BC = 24.6 cm. Find side AB to one decimal place.

16.1 cm

In triangle ABC, side BC = 10.0 cm and side AC = 15.0 cm. $\angle ABC = 94^\circ$. Find $\angle BAC$ to one decimal place.

42°

In triangle ABC, side AC = 10 cm and side BC = 9 cm. Side AB = 10 cm. Find $\angle ACB$ to one decimal place.

63.3°

Solutions – Sine Rule & Cosine Rule (F)

In triangle ABC, side AC = 23.3 cm and side AB = 18.9 cm. $\angle BAC = 90^\circ$. Find $\angle ABC$ to one decimal place.

51°

In triangle ABC, $\angle BAC = 44^\circ$ and $\angle ACB = 38^\circ$. Side BC = 19.5 cm. Find side AB to one decimal place.

17.2 cm

In triangle ABC, side AC = 20 cm and side AB = 23 cm. Side BC = 22 cm. Find $\angle BAC$ to one decimal place.

61.1°

In triangle ABC, side AB = 15 cm and side BC = 8 cm. $\angle ABC = 107.5^\circ$. Find side AC to one decimal place.

19.0 cm

In triangle ABC, side AB = 4.4 cm and side BC = 20.8 cm. $\angle ABC = 71^\circ$. Find $\angle ACB$ to one decimal place.

12°

Solutions – Sine Rule & Cosine Rule (G)

In triangle ABC, side AB = 6 cm and side BC = 9 cm. $\angle ABC = 137.0^\circ$. Find side AC to one decimal place.

14.0 cm

In triangle ABC, $\angle BAC = 40^\circ$ and $\angle ACB = 50^\circ$. Side BC = 13.5 cm. Find side AB to one decimal place.

16.1 cm

In triangle ABC, side AB = 21 cm and side BC = 19 cm. $\angle ABC = 22.4^\circ$. Find side AC to one decimal place.

8.0 cm

In triangle ABC, side AB = 16.3 cm and side BC = 13.6 cm. $\angle ABC = 66^\circ$. Find $\angle ACB$ to one decimal place.

65°

In triangle ABC, side AC = 22 cm and side BC = 16 cm. Side AB = 12 cm. Find $\angle ACB$ to one decimal place.

32.2°

Solutions – Sine Rule & Cosine Rule (H)

In triangle ABC, side AC = 18 cm and side BC = 22 cm. Side AB = 17 cm. Find $\angle ACB$ to one decimal place.

49.1°

In triangle ABC, $\angle ABC = 75^\circ$ and $\angle BAC = 95^\circ$. Side AC = 18.4 cm. Find side BC to one decimal place.

18.9 cm

In triangle ABC, side AB = 8 cm and side BC = 11 cm. $\angle ABC = 76.5^\circ$. Find side AC to one decimal place.

12.0 cm

In triangle ABC, side BC = 16.8 cm and side AC = 17.5 cm. $\angle ABC = 77^\circ$. Find $\angle BAC$ to one decimal place.

69°

In triangle ABC, side AC = 18 cm and side BC = 22 cm. $\angle ACB = 23.4^\circ$. Find side AB to one decimal place.

9.0 cm

Solutions – Sine Rule & Cosine Rule (I)

In triangle ABC, side AC = 20 cm and side BC = 24 cm. Side AB = 17 cm. Find $\angle ACB$ to one decimal place.

44.3°

In triangle ABC, side AC = 7 cm and side BC = 11 cm. $\angle ACB = 29.5^\circ$. Find side AB to one decimal place.

6.0 cm

In triangle ABC, side BC = 14.6 cm and side AC = 17.7 cm. $\angle ABC = 100^\circ$. Find $\angle BAC$ to one decimal place.

54°

In triangle ABC, side AC = 17 cm and side BC = 7 cm. $\angle ACB = 53.4^\circ$. Find side AB to one decimal place.

14.0 cm

In triangle ABC, $\angle BAC = 63^\circ$ and $\angle ACB = 55^\circ$. Side BC = 18.7 cm. Find side AB to one decimal place.

17.2 cm

Solutions – Sine Rule & Cosine Rule (J)

In triangle ABC, side AB = 20 cm and side BC = 22 cm. $\angle ABC = 29.9^\circ$. Find side AC to one decimal place.

11.0 cm

In triangle ABC, $\angle ABC = 79^\circ$ and $\angle BAC = 84^\circ$. Side AC = 24.5 cm. Find side BC to one decimal place.

24.9 cm

In triangle ABC, side BC = 28.8 cm and side AC = 26.5 cm. $\angle ABC = 66^\circ$. Find $\angle BAC$ to one decimal place.

83°

In triangle ABC, $\angle BAC = 83^\circ$ and $\angle ACB = 59^\circ$. Side BC = 17.9 cm. Find side AB to one decimal place.

15.4 cm

In triangle ABC, side AC = 14 cm and side BC = 20 cm. Side AB = 21 cm. Find $\angle ACB$ to one decimal place.

73.9°