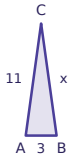
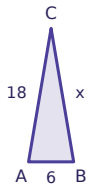
Triangle Inequality & Side–Angle Order · 1

Two sides of a triangle measure 3 and 11. Write the range of possible lengths x of the third side.



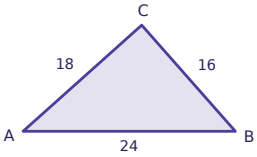

Triangle Inequality & Side–Angle Order · 2

Two sides of a triangle measure 6 and 18. The third side has a whole-number length. How many different lengths are possible?




Triangle Inequality & Side–Angle Order · 3

In △ABC, AB = 24, BC = 16 and AC = 18. Which angle is the largest? Answer A, B, or C.



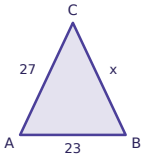

Triangle Inequality & Side–Angle Order · 4

In △ABC, m∠A = 91° and m∠B = 64°. Which side is the shortest? Answer AB, BC, or AC.




Triangle Inequality & Side–Angle Order · 5

Two sides of a triangle measure 23 and 27. Write the range of possible lengths x of the third side.

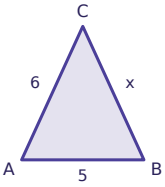



Triangle Inequality & Side–Angle Order · 6

Can the lengths 24, 6, 26 be the side lengths of a triangle? Answer yes or no.

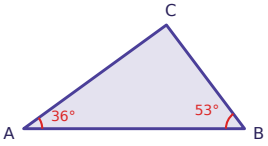
Triangle Inequality & Side–Angle Order · 7

Two sides of a triangle measure 5 and 6. The third side has a whole-number length. How many different lengths are possible?




Triangle Inequality & Side–Angle Order · 8

In △ABC, m∠A = 36° and m∠B = 53°. Which side is the shortest? Answer AB, BC, or AC.



Triangle Inequality & Side–Angle Order · 2

**ANSWER**

**11**

Triangle Inequality & Side–Angle Order · 1

**ANSWER**

**8 < x < 14**

Triangle Inequality & Side–Angle Order · 4

**ANSWER**

**AB**

Triangle Inequality & Side–Angle Order · 3

**ANSWER**

**C**

Triangle Inequality & Side–Angle Order · 6

**ANSWER**

**yes**

Triangle Inequality & Side–Angle Order · 5

**ANSWER**

**4 < x < 50**

Triangle Inequality & Side–Angle Order · 8

**ANSWER**

**BC**

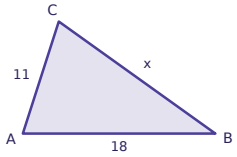
Triangle Inequality & Side–Angle Order · 7

**ANSWER**

**9**

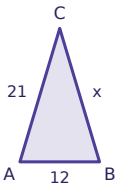
Triangle Inequality & Side–Angle Order · 9

Two sides of a triangle measure 18 and 11. Write the range of possible lengths x of the third side.



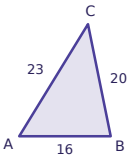

Triangle Inequality & Side–Angle Order · 10

Two sides of a triangle measure 12 and 21. The third side has a whole-number length. How many different lengths are possible?



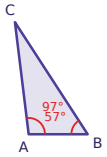

Triangle Inequality & Side–Angle Order · 11

In △ABC, AB = 16, BC = 20 and AC = 23. Which angle is the largest? Answer A, B, or C.



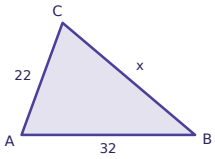

Triangle Inequality & Side–Angle Order · 12

In △ABC, m∠A = 97° and m∠B = 57°. Which side is the shortest? Answer AB, BC, or AC.




Triangle Inequality & Side–Angle Order · 13

Two sides of a triangle measure 32 and 22. Write the range of possible lengths x of the third side.

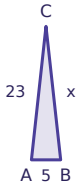



Triangle Inequality & Side–Angle Order · 14

Can the lengths 3, 6, 9 be the side lengths of a triangle? Answer yes or no.

Triangle Inequality & Side–Angle Order · 15

Two sides of a triangle measure 5 and 23. The third side has a whole-number length. How many different lengths are possible?




Triangle Inequality & Side–Angle Order · 16

In △ABC, m∠A = 58° and m∠B = 95°. Which side is the longest? Answer AB, BC, or AC.



Triangle Inequality & Side–Angle Order · 10

**ANSWER**

**23**

Triangle Inequality & Side–Angle Order · 9

**ANSWER**

**7 < x < 29**

Triangle Inequality & Side–Angle Order · 12

**ANSWER**

**AB**

Triangle Inequality & Side–Angle Order · 11

**ANSWER**

**B**

Triangle Inequality & Side–Angle Order · 14

**ANSWER**

**no**

Triangle Inequality & Side–Angle Order · 13

**ANSWER**

**10 < x < 54**

Triangle Inequality & Side–Angle Order · 16

**ANSWER**

**AC**

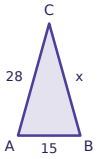
Triangle Inequality & Side–Angle Order · 15

**ANSWER**

**9**

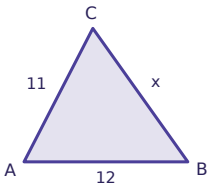
Triangle Inequality & Side–Angle Order · 17

Two sides of a triangle measure 15 and 28. Write the range of possible lengths x of the third side.



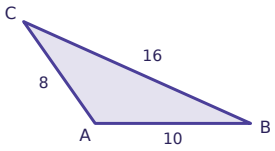

Triangle Inequality & Side–Angle Order · 18

Two sides of a triangle measure 12 and 11. The third side has a whole-number length. How many different lengths are possible?



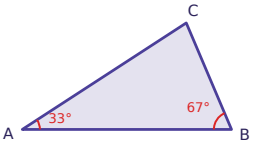

Triangle Inequality & Side–Angle Order · 19

In △ABC, AB = 10, BC = 16 and AC = 8. Which angle is the largest? Answer A, B, or C.



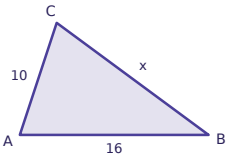

Triangle Inequality & Side–Angle Order · 20

In △ABC, m∠A = 33° and m∠B = 67°. Which side is the longest? Answer AB, BC, or AC.




Triangle Inequality & Side–Angle Order · 21

Two sides of a triangle measure 16 and 10. Write the range of possible lengths x of the third side.

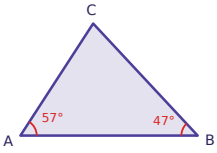



Triangle Inequality & Side–Angle Order · 22

Can the lengths 25, 35, 7 be the side lengths of a triangle? Answer yes or no.

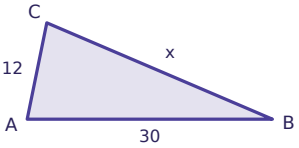
Triangle Inequality & Side–Angle Order · 23

In △ABC, m∠A = 57° and m∠B = 47°. Which side is the shortest? Answer AB, BC, or AC.




Triangle Inequality & Side–Angle Order · 24

Two sides of a triangle measure 30 and 12. Write the range of possible lengths x of the third side.



Triangle Inequality & Side–Angle Order · 18

**ANSWER**

**21**

Triangle Inequality & Side–Angle Order · 17

**ANSWER**

**13 < x < 43**

Triangle Inequality & Side–Angle Order · 20

**ANSWER**

**AB**

Triangle Inequality & Side–Angle Order · 19

**ANSWER**

**A**

Triangle Inequality & Side–Angle Order · 22

**ANSWER**

**no**

Triangle Inequality & Side–Angle Order · 21

**ANSWER**

**6 < x < 26**

Triangle Inequality & Side–Angle Order · 24

**ANSWER**

**18 < x < 42**

Triangle Inequality & Side–Angle Order · 23

**ANSWER**

**AC**