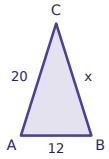
Triangle Inequality & Side–Angle Order · 1

Can the lengths 3, 5, 10 be the side lengths of a triangle? Answer yes or no.

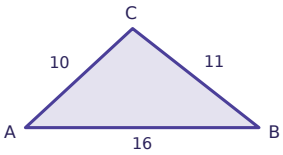
Triangle Inequality & Side–Angle Order · 2

Two sides of a triangle measure 12 and 20. Write the range of possible lengths x of the third side.



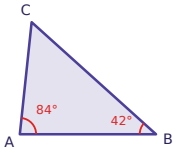
Triangle Inequality & Side–Angle Order · 3

In △ABC, AB = 16, BC = 11 and AC = 10. Which angle is the smallest? Answer A, B, or C.



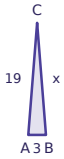
Triangle Inequality & Side–Angle Order · 4

In △ABC, m∠A = 84° and m∠B = 42°. Which side is the shortest? Answer AB, BC, or AC.



Triangle Inequality & Side–Angle Order · 5

Two sides of a triangle measure 3 and 19. Write the range of possible lengths x of the third side.

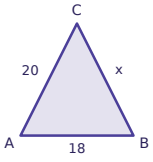


Triangle Inequality & Side–Angle Order · 6

Can the lengths 12, 6, 11 be the side lengths of a triangle? Answer yes or no.

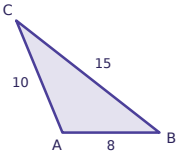
Triangle Inequality & Side–Angle Order · 7

Two sides of a triangle measure 18 and 20. Write the range of possible lengths x of the third side.



Triangle Inequality & Side–Angle Order · 8

In △ABC, AB = 8, BC = 15 and AC = 10. Which angle is the largest? Answer A, B, or C.



Triangle Inequality & Side–Angle Order · 2

ANSWER

8 < x < 32

Triangle Inequality & Side–Angle Order · 1

ANSWER

no

Triangle Inequality & Side–Angle Order · 4

ANSWER

AC

Triangle Inequality & Side–Angle Order · 3

ANSWER

B

Triangle Inequality & Side–Angle Order · 6

ANSWER

yes

Triangle Inequality & Side–Angle Order · 5

ANSWER

16 < x < 22

Triangle Inequality & Side–Angle Order · 8

ANSWER

A

Triangle Inequality & Side–Angle Order · 7

ANSWER

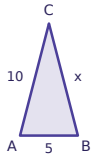
2 < x < 38

Triangle Inequality & Side–Angle Order · 9

Can the lengths 14, 36, 21 be the side lengths of a triangle? Answer yes or no.

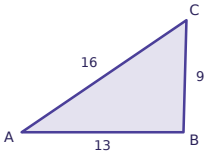
Triangle Inequality & Side–Angle Order · 10

Two sides of a triangle measure 5 and 10. Write the range of possible lengths x of the third side.



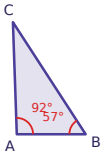
Triangle Inequality & Side–Angle Order · 11

In △ABC, AB = 13, BC = 9 and AC = 16. Which angle is the largest? Answer A, B, or C.



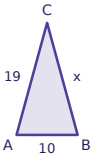
Triangle Inequality & Side–Angle Order · 12

In △ABC, m∠A = 92° 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 10 and 19. Write the range of possible lengths x of the third side.

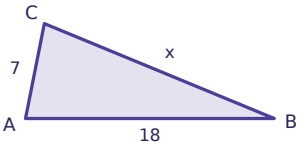


Triangle Inequality & Side–Angle Order · 14

Can the lengths 7, 6, 3 be the side lengths of a triangle? Answer yes or no.

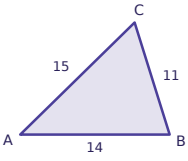
Triangle Inequality & Side–Angle Order · 15

Two sides of a triangle measure 18 and 7. Write the range of possible lengths x of the third side.



Triangle Inequality & Side–Angle Order · 16

In △ABC, AB = 14, BC = 11 and AC = 15. Which angle is the largest? Answer A, B, or C.



Triangle Inequality & Side–Angle Order · 10

ANSWER

$5 < x < 15$

Triangle Inequality & Side–Angle Order · 9

ANSWER

no

Triangle Inequality & Side–Angle Order · 12

ANSWER

AB

Triangle Inequality & Side–Angle Order · 11

ANSWER

B

Triangle Inequality & Side–Angle Order · 14

ANSWER

yes

Triangle Inequality & Side–Angle Order · 13

ANSWER

$9 < x < 29$

Triangle Inequality & Side–Angle Order · 16

ANSWER

B

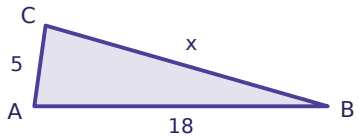
Triangle Inequality & Side–Angle Order · 15

ANSWER

$11 < x < 25$

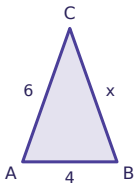
Triangle Inequality & Side–Angle Order · 17

Two sides of a triangle measure 18 and 5. Write the range of possible lengths x of the third side.



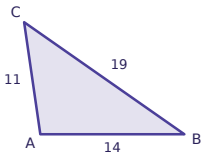
Triangle Inequality & Side–Angle Order · 18

Two sides of a triangle measure 4 and 6. The third side has a whole-number length. How many different lengths are possible?



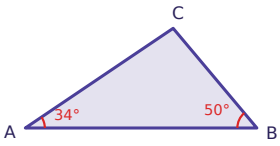
Triangle Inequality & Side–Angle Order · 19

In △ABC, AB = 14, BC = 19 and AC = 11. Which angle is the largest? Answer A, B, or C.



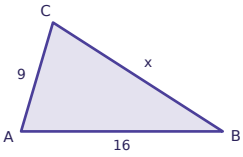
Triangle Inequality & Side–Angle Order · 20

In △ABC, m∠A = 34° and m∠B = 50°. Which side is the shortest? Answer AB, BC, or AC.



Triangle Inequality & Side–Angle Order · 21

Two sides of a triangle measure 16 and 9. Write the range of possible lengths x of the third side.

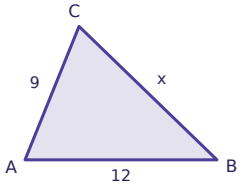


Triangle Inequality & Side–Angle Order · 22

Can the lengths 2, 14, 13 be the side lengths of a triangle? Answer yes or no.

Triangle Inequality & Side–Angle Order · 23

Two sides of a triangle measure 12 and 9. The third side has a whole-number length. How many different lengths are possible?



Triangle Inequality & Side–Angle Order · 24

In △ABC, m∠A = 87° and m∠B = 67°. Which side is the shortest? Answer AB, BC, or AC.



Triangle Inequality & Side–Angle Order · 18

ANSWER

7

Triangle Inequality & Side–Angle Order · 17

ANSWER

13 < x < 23

Triangle Inequality & Side–Angle Order · 20

ANSWER

BC

Triangle Inequality & Side–Angle Order · 19

ANSWER

A

Triangle Inequality & Side–Angle Order · 22

ANSWER

yes

Triangle Inequality & Side–Angle Order · 21

ANSWER

7 < x < 25

Triangle Inequality & Side–Angle Order · 24

ANSWER

AB

Triangle Inequality & Side–Angle Order · 23

ANSWER

17