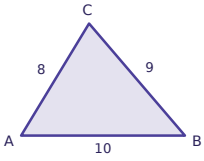
Triangle Inequality & Side–Angle Order · 1

Can the lengths 6, 2, 5 be the side lengths of a triangle? Answer yes or no.

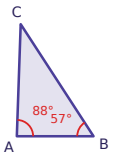
Triangle Inequality & Side–Angle Order · 2

In △ABC, AB = 10, BC = 9 and AC = 8. Which angle is the smallest? Answer A, B, or C.



Triangle Inequality & Side–Angle Order · 3

In △ABC, m∠A = 88° and m∠B = 57°. Which side is the longest? Answer AB, BC, or AC.

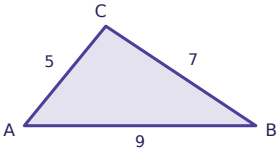


Triangle Inequality & Side–Angle Order · 4

Can the lengths 11, 8, 9 be the side lengths of a triangle? Answer yes or no.

Triangle Inequality & Side–Angle Order · 5

In △ABC, AB = 9, BC = 7 and AC = 5. Which angle is the smallest? Answer A, B, or C.

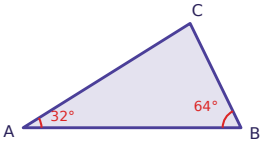


Triangle Inequality & Side–Angle Order · 6

Can the lengths 7, 11, 2 be the side lengths of a triangle? Answer yes or no.

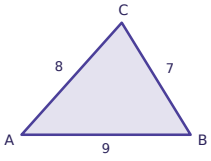
Triangle Inequality & Side–Angle Order · 7

In △ABC, m∠A = 32° and m∠B = 64°. Which side is the longest? Answer AB, BC, or AC.



Triangle Inequality & Side–Angle Order · 8

In △ABC, AB = 9, BC = 7 and AC = 8. Which angle is the smallest? Answer A, B, or C.



Triangle Inequality & Side–Angle Order · 2

ANSWER

B

Triangle Inequality & Side–Angle Order · 1

ANSWER

yes

Triangle Inequality & Side–Angle Order · 4

ANSWER

yes

Triangle Inequality & Side–Angle Order · 3

ANSWER

BC

Triangle Inequality & Side–Angle Order · 6

ANSWER

no

Triangle Inequality & Side–Angle Order · 5

ANSWER

B

Triangle Inequality & Side–Angle Order · 8

ANSWER

A

Triangle Inequality & Side–Angle Order · 7

ANSWER

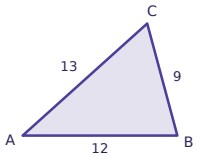
AB

Triangle Inequality & Side–Angle Order · 9

Can the lengths 10, 3, 7 be the side lengths of a triangle? Answer yes or no.

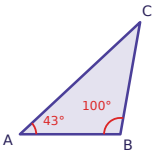
Triangle Inequality & Side–Angle Order · 10

In △ABC, AB = 12, BC = 9 and AC = 13. Which angle is the smallest? Answer A, B, or C.



Triangle Inequality & Side–Angle Order · 11

In △ABC, m∠A = 43° and m∠B = 100°. Which side is the longest? Answer AB, BC, or AC.

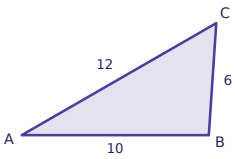


Triangle Inequality & Side–Angle Order · 12

Can the lengths 22, 7, 12 be the side lengths of a triangle? Answer yes or no.

Triangle Inequality & Side–Angle Order · 13

In △ABC, AB = 10, BC = 6 and AC = 12. Which angle is the smallest? Answer A, B, or C.

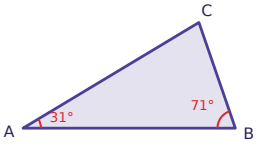


Triangle Inequality & Side–Angle Order · 14

Can the lengths 12, 28, 14 be the side lengths of a triangle? Answer yes or no.

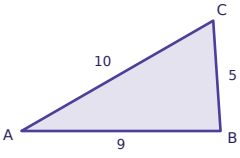
Triangle Inequality & Side–Angle Order · 15

In △ABC, m∠A = 31° and m∠B = 71°. Which side is the shortest? Answer AB, BC, or AC.



Triangle Inequality & Side–Angle Order · 16

In △ABC, AB = 9, BC = 5 and AC = 10. Which angle is the largest? Answer A, B, or C.



Triangle Inequality & Side–Angle Order · 10

ANSWER

A

Triangle Inequality & Side–Angle Order · 9

ANSWER

no

Triangle Inequality & Side–Angle Order · 12

ANSWER

no

Triangle Inequality & Side–Angle Order · 11

ANSWER

AC

Triangle Inequality & Side–Angle Order · 14

ANSWER

no

Triangle Inequality & Side–Angle Order · 13

ANSWER

A

Triangle Inequality & Side–Angle Order · 16

ANSWER

B

Triangle Inequality & Side–Angle Order · 15

ANSWER

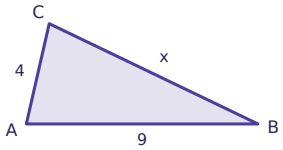
BC

Triangle Inequality & Side–Angle Order · 17

Can the lengths 4, 15, 17 be the side lengths of a triangle? Answer yes or no.

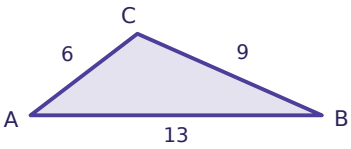
Triangle Inequality & Side–Angle Order · 18

Two sides of a triangle measure 9 and 4. Write the range of possible lengths x of the third side.



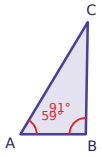
Triangle Inequality & Side–Angle Order · 19

In △ABC, AB = 13, BC = 9 and AC = 6. Which angle is the largest? Answer A, B, or C.



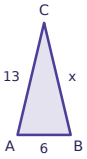
Triangle Inequality & Side–Angle Order · 20

In △ABC, m∠A = 59° and m∠B = 91°. Which side is the shortest? Answer AB, BC, or AC.



Triangle Inequality & Side–Angle Order · 21

Two sides of a triangle measure 6 and 13. Write the range of possible lengths x of the third side.



Triangle Inequality & Side–Angle Order · 22

Can the lengths 18, 2, 17 be the side lengths of a triangle? Answer yes or no.

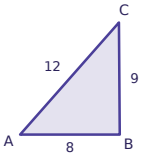
Triangle Inequality & Side–Angle Order · 23

Two sides of a triangle measure 3 and 14. Write the range of possible lengths x of the third side.



Triangle Inequality & Side–Angle Order · 24

In △ABC, AB = 8, BC = 9 and AC = 12. Which angle is the smallest? Answer A, B, or C.



Triangle Inequality & Side–Angle Order · 18

ANSWER

5 < x < 13

Triangle Inequality & Side–Angle Order · 17

ANSWER

yes

Triangle Inequality & Side–Angle Order · 20

ANSWER

AB

Triangle Inequality & Side–Angle Order · 19

ANSWER

C

Triangle Inequality & Side–Angle Order · 22

ANSWER

yes

Triangle Inequality & Side–Angle Order · 21

ANSWER

7 < x < 19

Triangle Inequality & Side–Angle Order · 24

ANSWER

C

Triangle Inequality & Side–Angle Order · 23

ANSWER

11 < x < 17