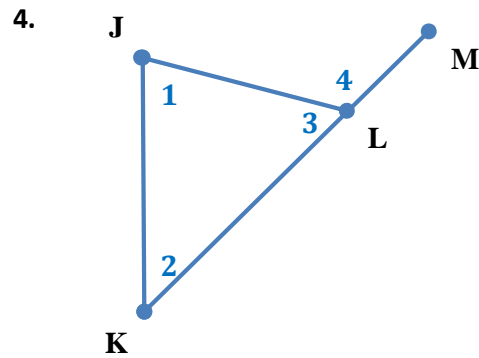
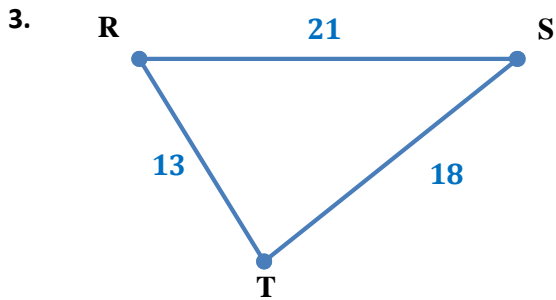
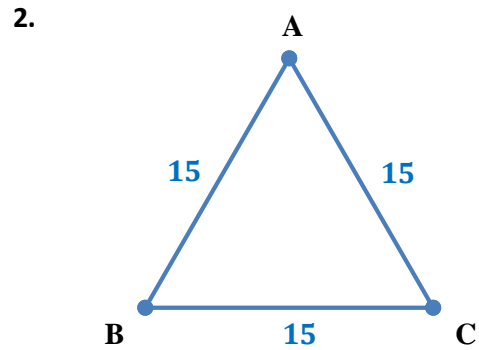
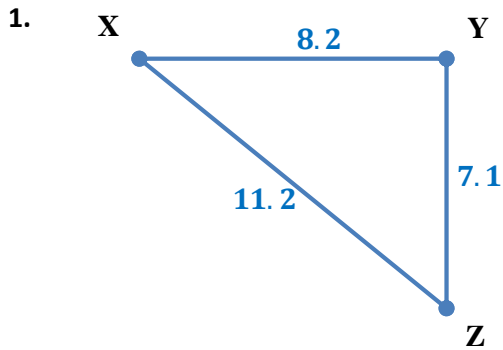
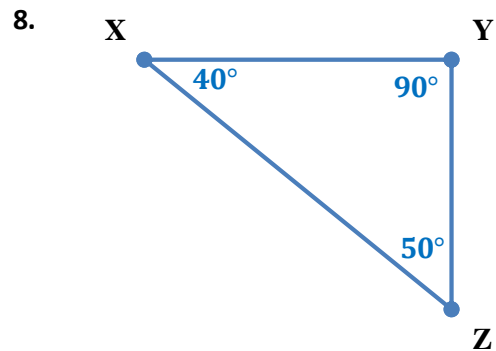
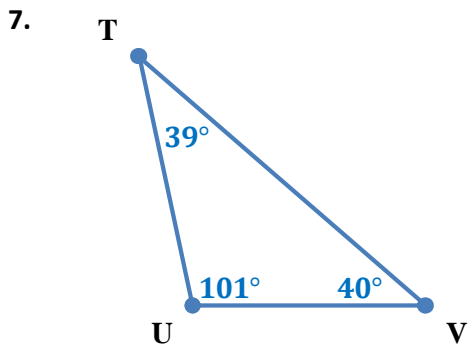
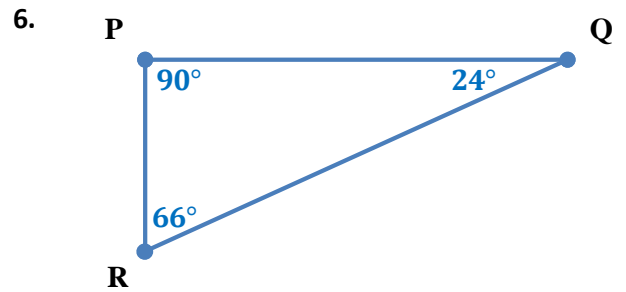
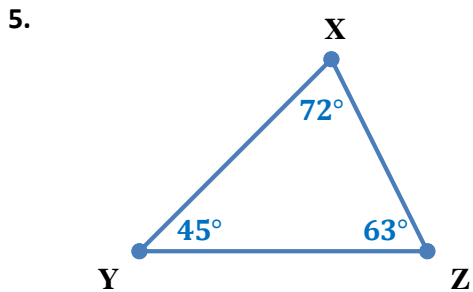


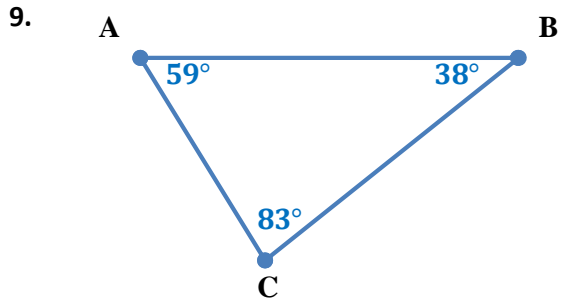
# INEQUALITIES IN ONE TRIANGLE Assignment

Write the angles in order from smallest to largest.



Write the sides in order from shortest to longest.



**INEQUALITIES IN ONE TRIANGLE** Assignment

Determine whether a triangle can have sides with the given lengths.

10. 4, 7, 10

11. 3.5, 3.5, 6

12. 2, 9, 12

13. 3, 1.1, 1.7

14. 32, 11, 27

15.  $7c + 6$ ,  $10c - 7$ ,  $3c^2$ ; when  $c = 2$

The lengths of two sides of a triangle are given. Find the range of possible lengths for the third side.

16. 8mm, 12 mm

17. 3.5 ft, 6.1 ft

18. 16 ft, 16 ft

19. 3 ft, 5 ft

20. 12 cm, 7 cm

21. 9.2 cm, 3.8 cm

22. 4 yd, 19 yd

23. 3.07 m, 1.89 m

24. 28km, 23 km

25. 2.8 in, 3.5 in

26. 5 in, 12 in

27. 3 m, 4 m

28. 12 ft, 18 ft

29. 10 yd, 23 yd

30. 2 ft, 4 ft