Name _____ Date _____

Determine whether it is possible to draw a triangle with sides of the given measures. Write *yes* or *no*. If yes, draw the triangle.

14. 5, 4, 3

15. 5.2, 5.6, 10.1

16. 5, 10, 15

17. 10, 100, 100

18. 301, 8, 310

19. 9, 40, 41

20. 12, 2.2, 14.3

21. 10, 150, 200

22. 84, 7, 115

The measures of two sides of a triangle are given. Between what two numbers must the measure of the third side fall?

23. 15 and 18

24. 14 and 23

25. 22 and 34

26. 21 and 47

27. 64 and 88

28. 99 and 2

29. 47 and 71

30. 104 and 118

31. a and b

Determine whether it is possible to have a triangle with the given vertices. Write *yes* or *no*, and explain your answer.

38. $R(0, 0), S(3, 5), T(5, 3)$

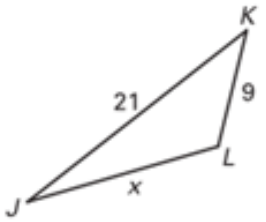
39. $A(2, 3), B(-5, -11), C(-8, 15)$

40. $J(1, -4), K(-3, -20), L(5, 12)$

41. $D(1, 4), E(5, -1), F(1, -4)$

In Exercises 9 and 10, $m\angle J < m\angle K < m\angle L$. Find all possible values of x.

9.



10.