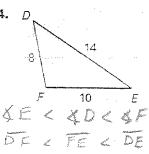
Adv. Geometry 5.5

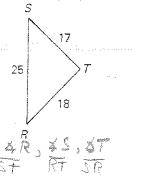
D inequality

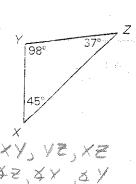
List the sides and the angles in order from smallest to largest.

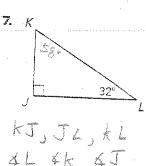
4.



5.







Sketch and label the triangle described.

10. Side lengths: 14, 17, and 19, with longest side on the bottom Angle measures: 45°, 60°, and 75°, with smallest angle at the right



Is it possible to construct a triangle with the given side lengths? If not, explain why not.

13. 3, 4, 5

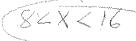


15. 17, 17, 33

Ves

Describe the possible lengths of the third side of the triangle given the lengths of the other two sides.

19. 6 in., 9. in.

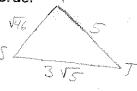


Is it possible to build a triangle using the given side lengths? If so, order the angle measures of the triangle from least to greatest.

25.
$$RS = \sqrt{46}$$
, $ST = 3\sqrt{5}$, $RT = 5$



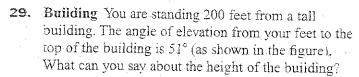
7es/\$(\$5, &R, &T



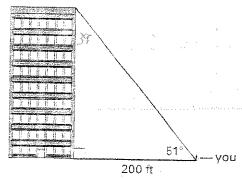
31. Airplanes Two airplanes leave the same airport heading in different directions. After 2 hours, one airplane has traveled 710 miles and the other has traveled 640 miles. Describe the range of distances that represents how far apart the two airplanes can be at this time.

70 < X < 1350 =>

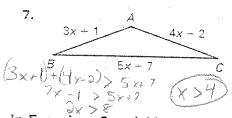
more than 70 miles spart or less than 1350 miles apart



More than 2001 tell



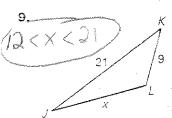
Solve the inequality AB + AC > BC for x.



8.

(X+5)+(2x-1)>(10-x)

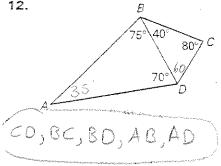
In Exercises 9 and 10, $m \angle J < m \angle K < m \angle L$. Find all possible values of x



20-X < 15 < 12+X 20-X +15 > 12+X 35 -x > 12+x 5 4 X 6 11.5 23 32× 11.53×

List the sides in order from shortest to longest.

12.





18. Playground You are asked to fence in a triangular playground. Two sides of the playground have lengths of 100 feet and 200 feet. What is the maximum total length of fence you could possibly need? 3 de side ss x

In Exercises 1–4, $m\angle A < m\angle B < m\angle C$. Describe the possible values of x.

