Name _____ **Date** _____

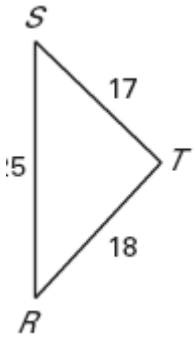
LESSON 5.5

Practice B

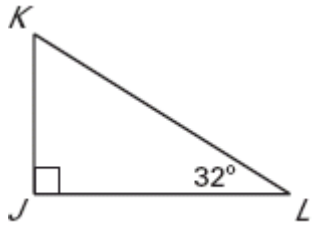
For use with pages 328-334

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

1.



2.



Sketch and label the triangle described.

3. 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.

4. 3, 4, 5

5. 1, 4, 6

6. 17, 17, 33

7. 22, 26, 65

8. 6, 43, 39

9. 7, 54, 45

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

10. 6 in., 9 in.

11. 4 ft, 12 ft

12. 9 m, 18 m

13. 21 yd, 16 yd

14. 22 in., 2 ft

15. 24 in., 1 yd

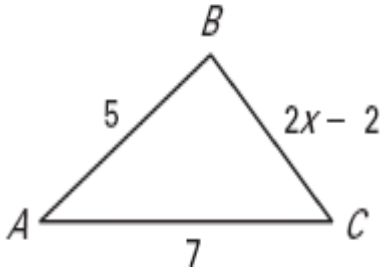
Is it possible to build a triangle using the given side lengths? If so, order the angle measures of the triangle from least to greatest.

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

17. $AB = \sqrt{26}, BC = 4\sqrt{5}, AC = 2\sqrt{2}$

Describe **the possible values of *x*.**

18.



19.