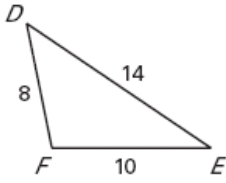


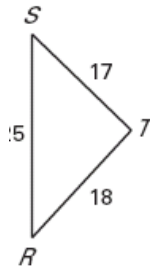
Honors Geometry Triangle Relationships

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

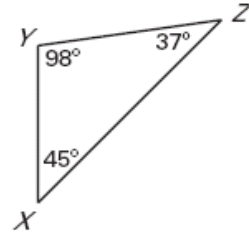
1.



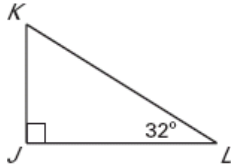
2.



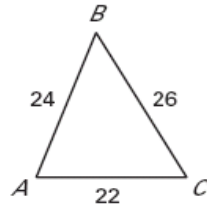
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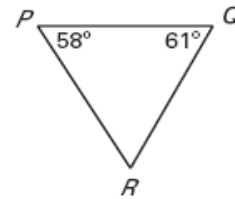
4.



5.



6.



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

7. 3, 4, 5

8. 1, 4, 6

9. 17, 17, 33

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

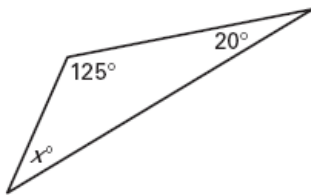
10. 6 in., 9 in.

11. 4 ft, 12 ft

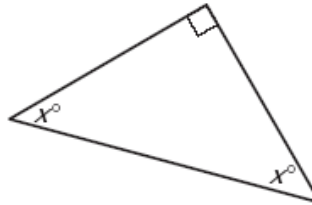
12. 22 in., 2 ft

Find the value of x . Then find any missing angle measures.

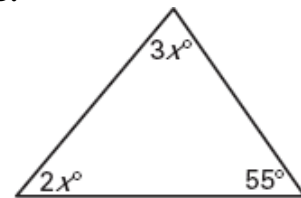
13.



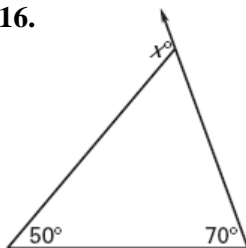
14.



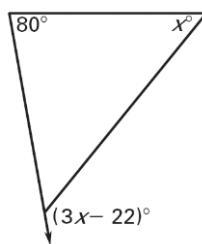
15.



16.



17.



18.

