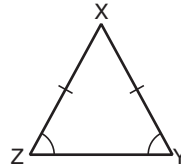


Isosceles and Equilateral Triangles

Name the parts of the figure that match the vocabulary words.

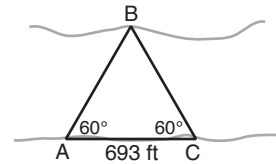
1. base: _____
2. legs: _____ and _____
3. base angles: _____ and _____
4. vertex angle: _____



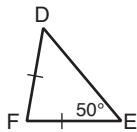
Fill in the blanks in Exercises 5–8 to complete each theorem.

5. If a triangle is equilateral, then it is _____.
6. If two angles of a triangle are congruent, then the sides _____ those angles are congruent.
7. If two sides of a triangle are congruent, then the _____ opposite those sides are congruent.
8. If a triangle is equiangular, then it is _____.

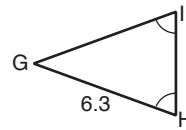
9. A forest ranger in Grand Canyon National Park wants to find the minimum distance across the canyon. She finds a place in the Marble Canyon area of the park where the sides seem close together. She takes measurements and draws this figure. Find the distance AB . (*Hint*: The angles in an equiangular triangle measure 60° .)



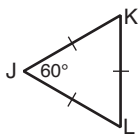
Find each value.



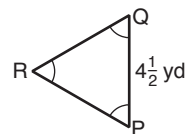
10. $m\angle D =$ _____



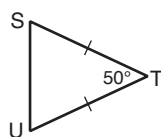
11. $GI =$ _____



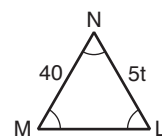
12. $m\angle L =$ _____



13. $RQ =$ _____



14. $m\angle U =$ _____

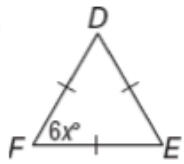


15. $t =$ _____

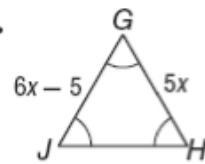
Part 2

Directions: Find the value of each variable.

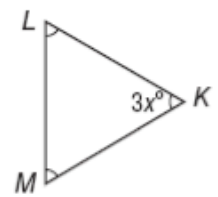
1.



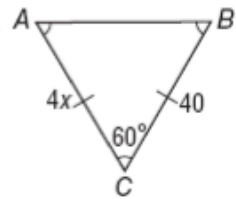
2.



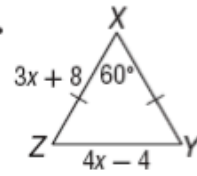
3.



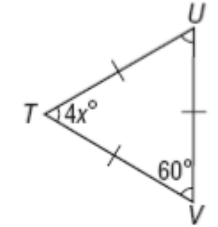
4.



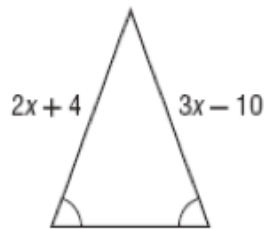
5.



6.



7.



8.

