LESSON 4.1 & 4.2

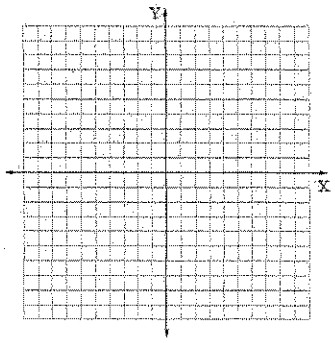
Name_____

Classifying Triangles and Angle Relationships in Triangles

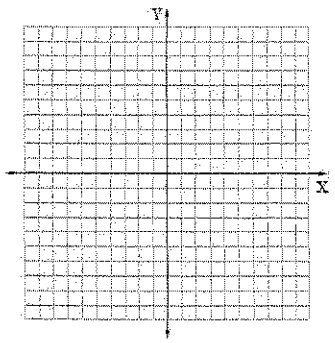
1. What is the side length of an equilateral triangle with a perimeter of 48 inches?
   DRAW A PICTURE!

2. The base of an isosceles triangle measures 12 feet. If the perimeter is 50 feet, what are the lengths of the other two sides? DRAW A PICTURE!

3. The vertices of △PQR are P(3, 3), Q(3, 1) and R(-2, 2). Use the distance formula to classify △PQR by the length of its sides.



4. The vertices of △JKL are J(-1, 1), K(5, 1) and L(2, -2). Use the distance formula to classify △JKL by the length of its sides.



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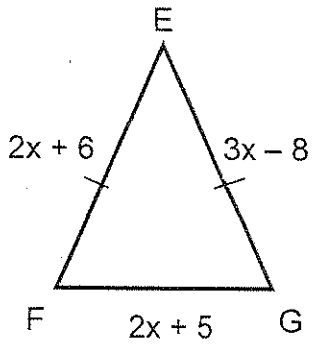
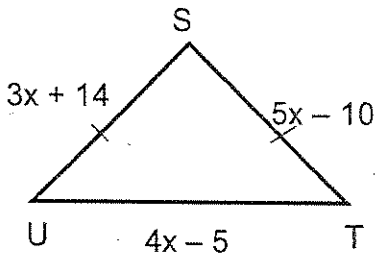
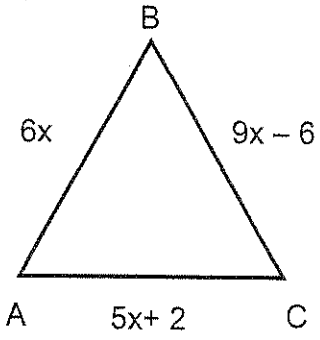
5. Find the measure of the base length of isosceles △EFG.



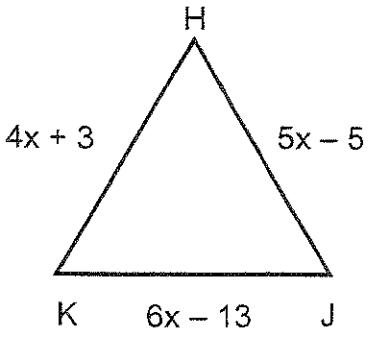
6. Find the measure of the base length of isosceles △STU.



7. Find the perimeter of equilateral △ABC.



8. Find the perimeter of equilateral △HJK.



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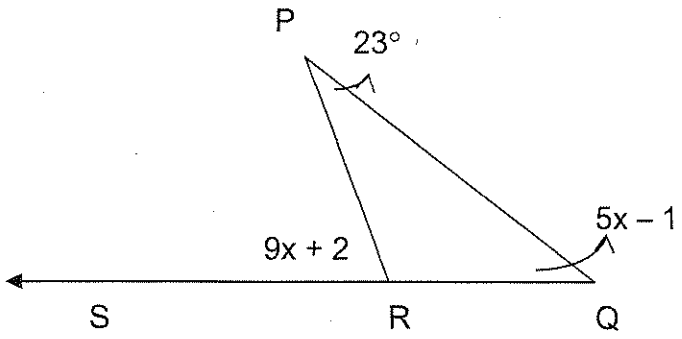
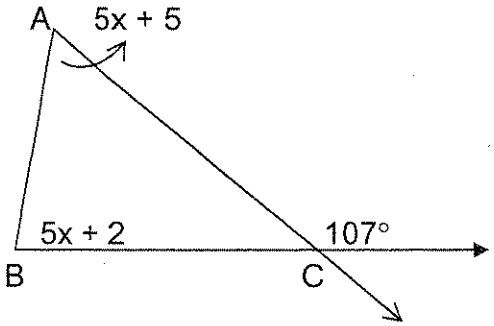
9. Find the measure of ∠PRQ.



10. Find the measure of ∠ACB



11. m∠3 = 2x + 68. Find the value of x.