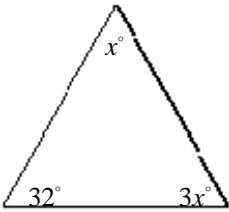


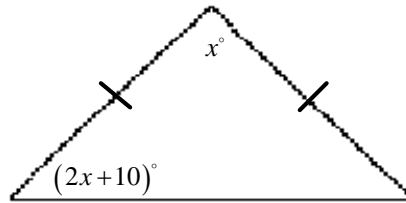
# Triangles

Directions: Find the missing angles of the triangle and then classify the triangle by its angles and sides.

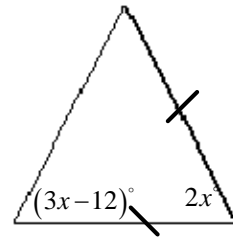
1.



2.



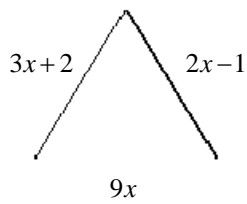
3.



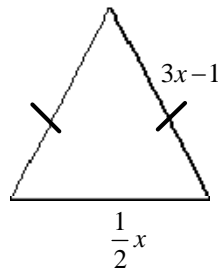
4. The ratio of the angle measures of a triangle is 8:13:15. Find the angle measures and then classify the triangle by its angles and sides.

Directions: Find the missing side of the triangle with the given perimeter.

5.  $P = 183$  feet



6.  $P = 11$  m



7. The ratio of the sides of a triangle is 8:15:17 and the perimeter is 80. Find the length of each side of the triangle and then classify the triangle by its angles and sides.
8.  $\triangle ABC$  has coordinates  $A(1, -1)$ ,  $B(-2, 1)$  and  $C(-4, -2)$ . Find the length of each side of the triangle and then classify the triangle by its sides.
9. The length of the first side of a triangle is seven more than twice the second. The length of the third side is four less than three times the second. If the perimeter of the triangle is 39 cm, find the length of each side.
10. In an isosceles triangle, the measure of the vertex angle is  $5^\circ$  more than three times the measure of each base angle. Find the measure of each angle and classify the triangle by its angles.