

Name: _____ Period: _____

Score: _____/_____ _____

HW 7-3: Angles of Triangles

Use the number of sides to tell what kind of polygon the shape is.

1.



5.



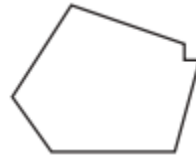
2. 8 sides

6. 6 sides

3.



7.



4. 10 sides

8. 9 sides

Use the number of sides of the traffic sign to tell what kind of polygon it is.

9.



11.



10.

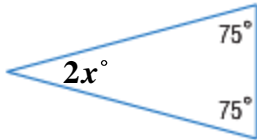


12.



Find the value of x in each triangle with the given angle measures.

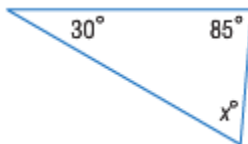
13.



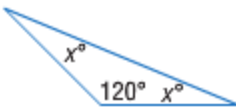
14.



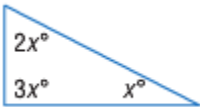
15.



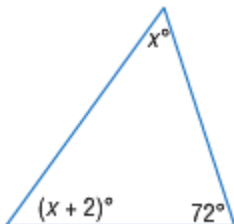
16.



17.



18.

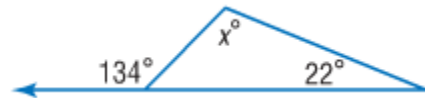


19. The measures of the angles of $\triangle RST$ are in the ratio **2:4:9**. What are the measures of the angles?

20. The measures of the angles of $\triangle XYZ$ are in the ratio **3:3:6**. What are the measures of the angles?

Find the value of x in each triangle.

21.



22.



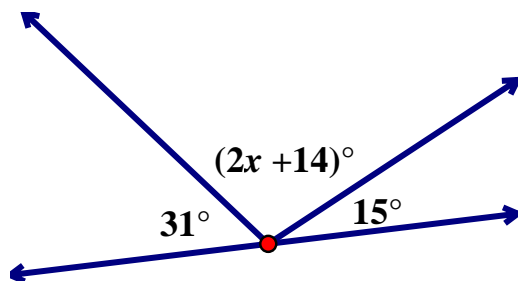
23.



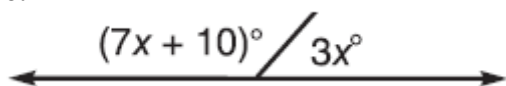
24. In $\triangle ABC$ the measure of angle A is $2x + 3$, the measure of angle B is $4x + 2$, and the measure of angle C is $2x - 1$. What are the measures of the angles?

Find the value of x .

25.



26.



Find the indicated angle measure. (There may NOT be enough information to find the value.) Justify your answer by naming the angle relationship and angles used.

27. $m\angle 2$

28. $m\angle 7$

29. $m\angle 4$

