Use the number of sides to tell what kind of polygon the shape is.
1.

2. 8 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.

19. The measures of the angles of $\boldsymbol{\Delta R S T}$ are in the ratio $2: 4: 9$. What are the measures of the angles?
20. The measures of the angles of $\Delta X Y Z$ are in the ratio $\mathbf{3 : 3 : 6}$. What are the measures of the angles?
15.

16.

17.

18.


Find the value of $x$ in each triangle.
21.

22.

23.

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

Find the value of $x$.
25.

26.

$$
\stackrel{(7 x+10)^{\circ} / 3 x^{\circ}}{\longleftrightarrow}
$$

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. $m<7$
29. $m \angle 4$


