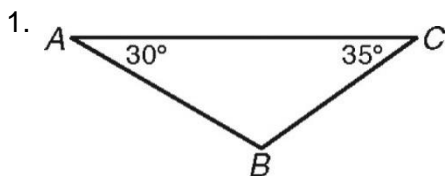
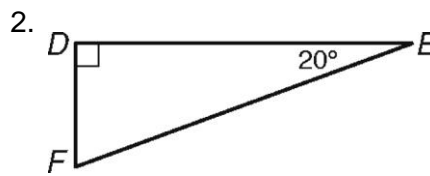


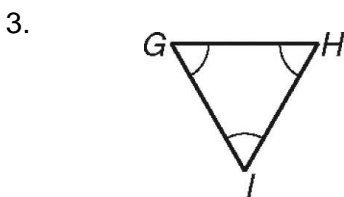
Find the measure of each angle.



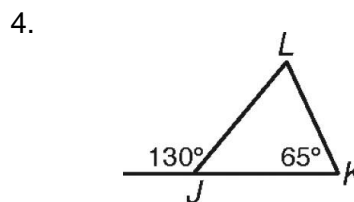
$m\angle B = \underline{\hspace{2cm}}^\circ$



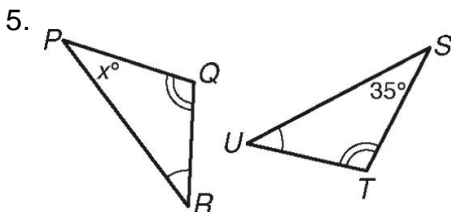
$m\angle F = \underline{\hspace{2cm}}^\circ$



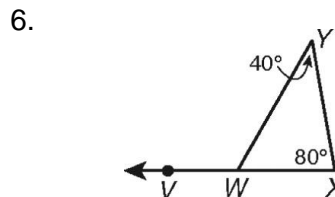
$m\angle G = \underline{\hspace{2cm}}^\circ$



$m\angle L = \underline{\hspace{2cm}}^\circ$



$m\angle P = \underline{\hspace{2cm}}^\circ$



$m\angle VWY = \underline{\hspace{2cm}}^\circ$

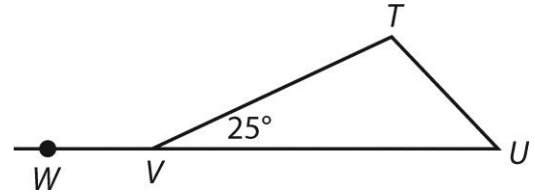
Use your knowledge of angle relationships to answer questions 7–10.

7. The sum of the angle measures of a quadrilateral is $\underline{\hspace{2cm}}^\circ$.
8. The acute angles of a $\underline{\hspace{2cm}}$ triangle are complementary.
9. The measure of an $\underline{\hspace{2cm}}$ angle of a triangle is equal to the sum $\underline{\hspace{1cm}}$ of the measures of its remote interior angles.
10. The angle measures of a triangle are x , $3x$, and $5x$. Tell the measure of each angle. $\underline{\hspace{2cm}}^\circ$, $\underline{\hspace{2cm}}^\circ$, $\underline{\hspace{2cm}}^\circ$

Use triangle TUV to answer Problems 11-13.

11. Angle TVW is an exterior angle of triangle TUV .

What is its measure? _____ $^\circ$

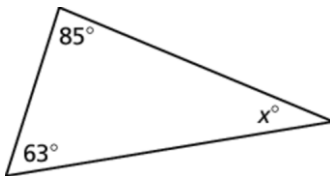


12. With respect to angle TVW , angles T and U are remote _____ angles.

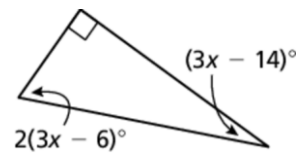
13. What is the sum of the measures of angles T and U ? _____ $^\circ$

In Exercises 14-17, find the value of x .

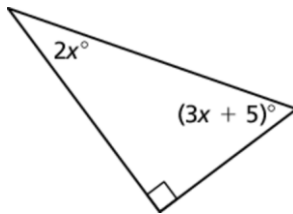
14.



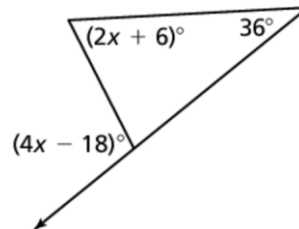
15.



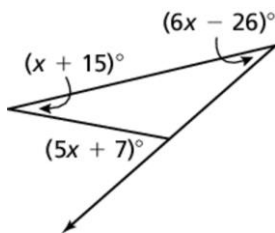
16.



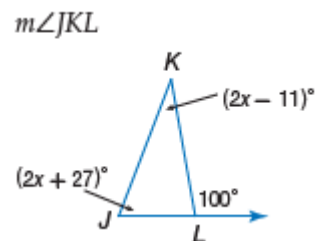
17.



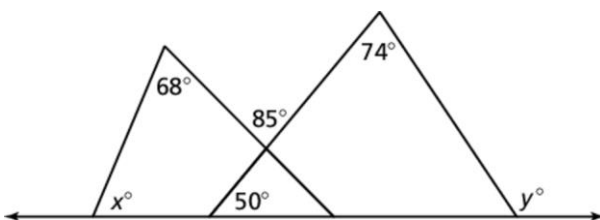
18.



19.



20. In the figure, solve for x and y .



Find the sum of the interior angle measures of each given polygon.

22.



23.



24.



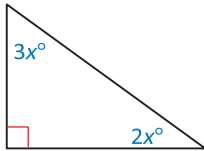
25. 12-gon

26. 18-gon

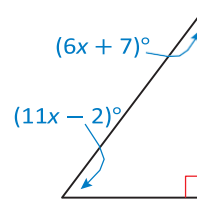
27. 25-gon

Find the measure of each acute angle.

28.



29.



Find the measure of each acute angle in the right triangle.

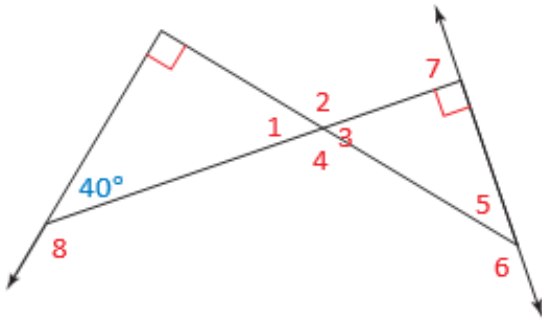
30. The measure of one acute angle is 5 times the measure of the other acute angle.

31. The measure of one acute angle is 8 times the measure of the other acute angle.

32. The measure of one acute angle is 3 times the sum of the measure of the other acute angle and 8.

33. The measure of one acute angle is twice the difference of the measure of the other acute angle and 12.

Find the measure of the numbered angle.



36. $\angle 1$

37. $\angle 2$

38. $\angle 3$

39. $\angle 4$

40. $\angle 5$

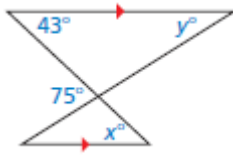
41. $\angle 6$

42. $\angle 7$

43. $\angle 8$

Find the values of x and y .

44.



45.

