

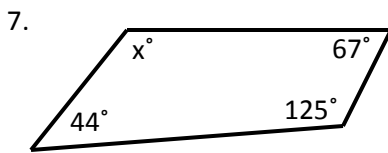
For 1-6, find the sum of the interior angles and exterior angles in a figure with the given number of sides.

1. 12 2. 6 3. 24 4. 15 5. 4 6. 8

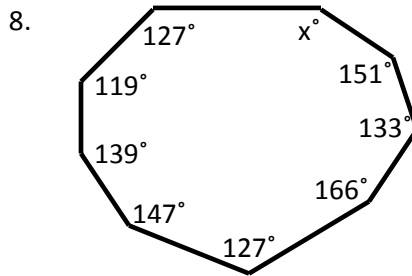
Int. sum _____ Int. sum _____ Int. sum _____ Int. sum _____ Int. sum _____ Int. sum _____

Ext. sum _____ Ext. sum _____ Ext. sum _____ Ext. sum _____ Ext. sum _____ Ext. sum _____

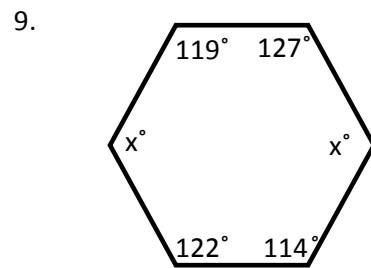
For 7-12, find the value of x .



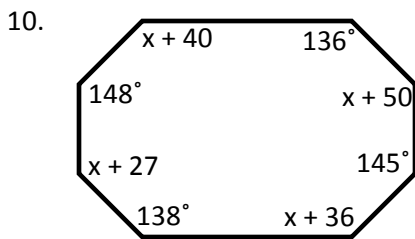
$x =$ _____



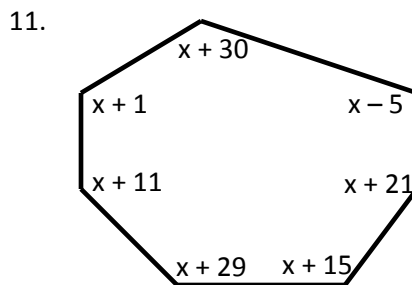
$x =$ _____



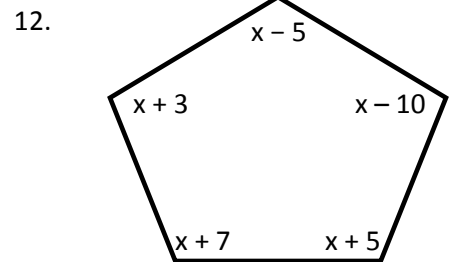
$x =$ _____



$x =$ _____

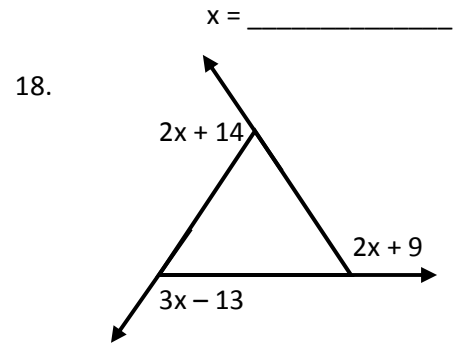
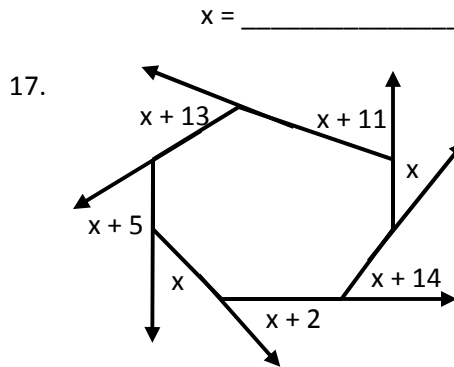
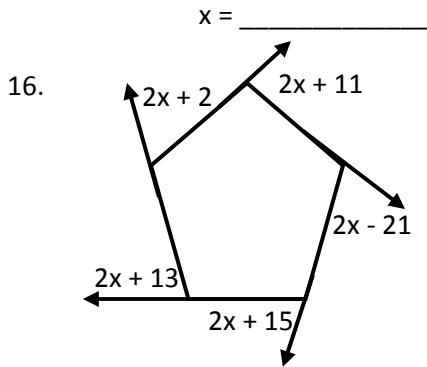
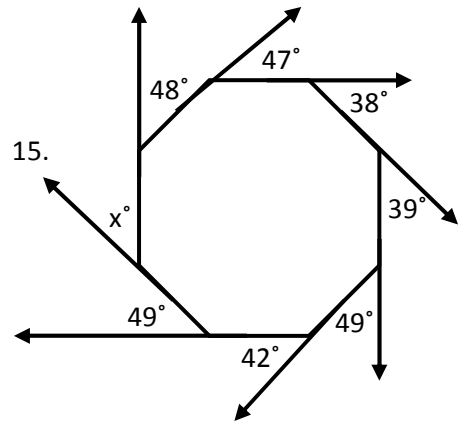
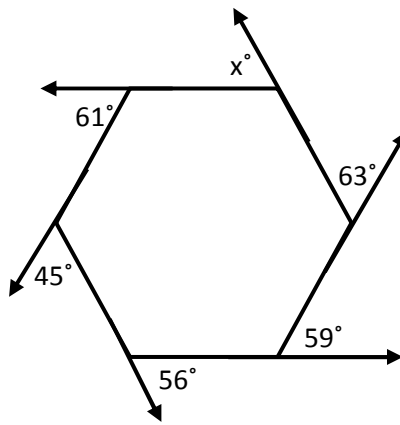
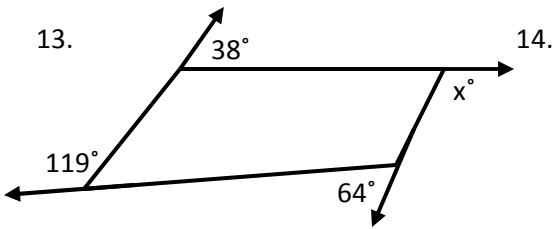


$x =$ _____



$x =$ _____

For 13-18, find the value of x .



$x = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$

Find the measure of one interior and one exterior angle in a regular polygon with the given number of sides.

19. 5 20. 9 21. 30 22. 8 23. 72 24. 10

Int. \angle _____ Int. \angle _____ Int. \angle _____ Int. \angle _____ Int. \angle _____ Int. \angle _____

Ext. \angle _____ Ext. \angle _____ Ext. \angle _____ Ext. \angle _____ Ext. \angle _____ Ext. \angle _____

Find the number of sides in a regular polygon with the given angle measure.

25. Interior $\angle = 60^\circ$ 26. Exterior $\angle = 30^\circ$ 27. Interior $\angle = 160^\circ$ 28. Exterior $\angle = 15^\circ$

Sides = _____ Sides = _____ Sides = _____ Sides = _____

29. Exterior $\angle = 8^\circ$ 30. Interior = 171° 31. Exterior $\angle = 90^\circ$ 32. Interior $\angle = 120^\circ$

Sides = _____ Sides = _____ Sides = _____ Sides = _____