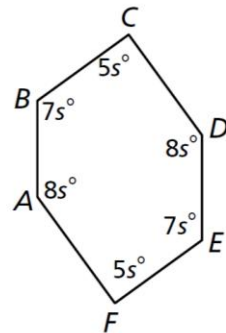


1. The sum of the interior angle measures of a convex dodecagon.

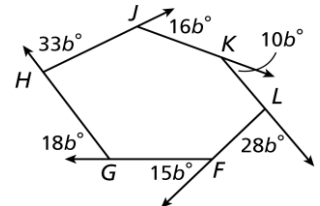
2. The measure of each interior angle of a regular nonagon.

3. The measure of each exterior angle of a regular heptagon.

4. Use the figure. Find the measure of each interior angle of hexagon ABCDEF.



5. Find the measure of  $b$  in figure FGHJL. Then, find the measure of angle LFG.



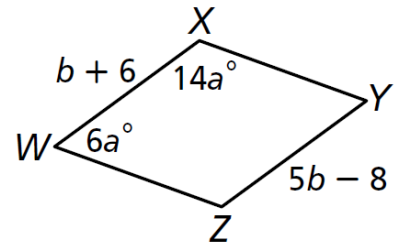
6. WXYZ is a parallelogram. Find each measure.

a. WX

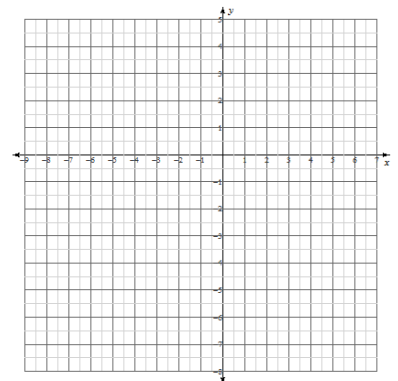
b. YZ

c. angle Y

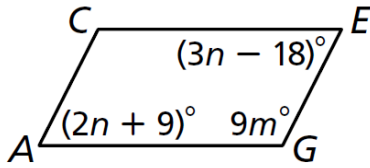
c. angle Z



7. Three vertices of  $\square RSTV$  are  $R(-8, 1)$ ,  $S(2, 3)$ , and  $V(-4, -7)$ . Find the coordinates of vertex  $T$ .

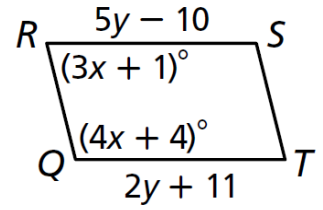


8. Find the measure of angle C.



9. Find each measure.

a. angle T



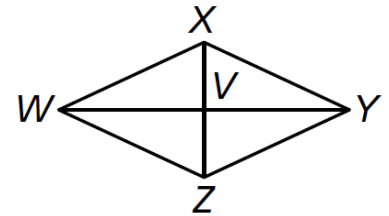
b. QT

10. The measure of the interior angles of a convex quadrilateral are  $2n$ ,  $2n$ ,  $5n$ , and  $6n$ . What is the measure of the largest angle?

11. In rhombus WXYZ,  $WX = 7a+1$ ,  $WZ = 9a -6$ , and  $VZ = 3a$ . Find each measure.

a. WZ

b. XV



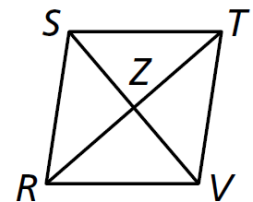
c. XY

d. XZ

12. In rhombus RSTV,  $m\angle TZV = (8n+18)^\circ$ , and  $m\angle SRV = (9n+1)^\circ$ .

a. Find  $m\angle TRS$

b.  $m\angle RSV$



c.  $m\angle STV$

d.  $m\angle TVR$

Find the measures of the numbered angles in each figure.

13. rectangle  $MNPQ$

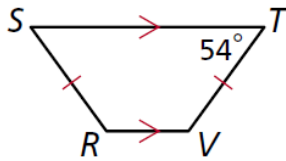
$m\angle 1 =$   
 $m\angle 2 =$   
 $m\angle 3 =$   
 $m\angle 4 =$   
 $m\angle 5 =$

14. rhombus  $CDGH$

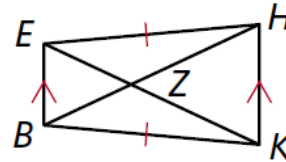
$m\angle 1 =$   
 $m\angle 2 =$   
 $m\angle 3 =$   
 $m\angle 4 =$   
 $m\angle 5 =$

Find each measure.

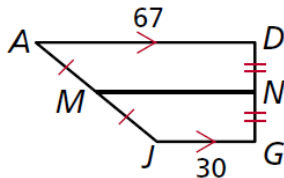
15.  $m\angle R$  and  $m\angle S$



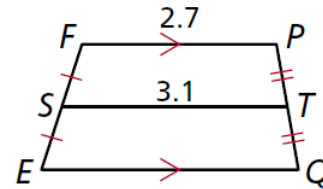
16.  $BZ$  if  $ZH = 70$   
and  $EK = 121.6$



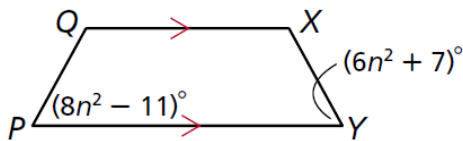
17.  $MN$



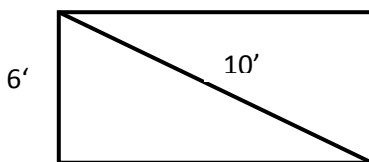
18.  $EQ$



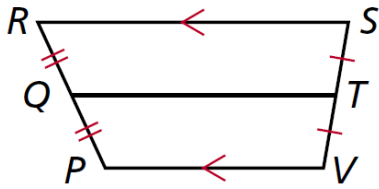
19. Find the value of  $n$  so that  $PQXY$  is isosceles.



20. Find the area of the rectangle.

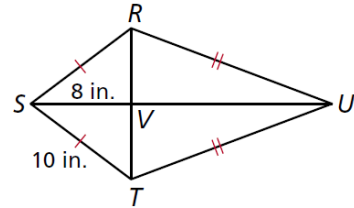


21.



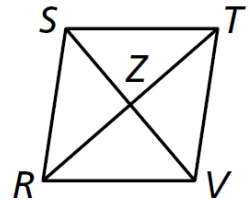
If  $RS = x+5$ ,  $QT = 2x$ , and  $PV = 2x - 2$ , find the length of RS.

22. Find the area of Triangle RST.



23. If the length of SU is 30, find the area of Kite RSTU.

24. Given a rhombus with  $SZ = 6$  inches and  $RZ = 5$  inches, find the area of rhombus RSTV.



25. Find all missing angle measures, given ABCD and EFHG are parallelograms. The measure of angle D is  $55^\circ$  and the measure of angle H is  $45^\circ$ .

- $m\angle 1 =$
- $m\angle 2 =$
- $m\angle 3 =$
- $m\angle 4 =$
- $m\angle 5 =$
- $m\angle 6 =$
- $m\angle 7 =$
- $m\angle 8 =$

