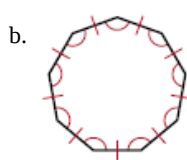
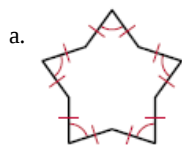


Chapter 7 Group Review

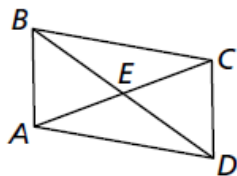
1. Each of the parallel sides of a trapezoid is called a(n) _____.

2. Tell whether the polygon is regular or not. Then, tell whether the polygon is concave or convex. Then, name the polygon by the number of its sides.



3. Find the measure of each exterior angle of a regular polygon whose sum of the interior angles is 4680° .

4. In $\parallel$ -gram ABCD, $m\angle ABC = 79^\circ$, $BC = 62.4$ and $BD = 75$. Find ...

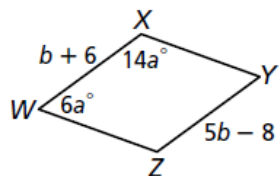


a. AD

b. $m\angle CDA$

c. $m\angle DAB$

5. WXYZ is a $\parallel$ -gram. Find...

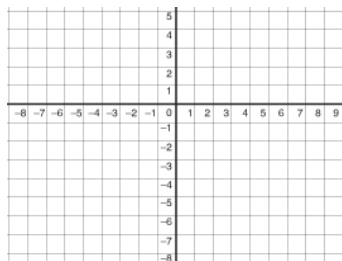


a. YZ

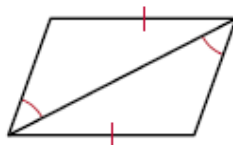
b. $m\angle X$

c. $m\angle Z$

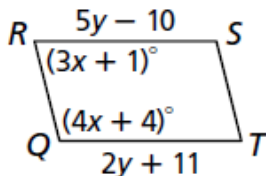
6. Three vertices of $\parallel$ -gram RSTV are $R(-8, 1)$, $S(2, 3)$, and $V(-4, -7)$. Find the coordinates of vertex T. (Remember, the order of the name RSTV matters!)



7. Determine if the quadrilateral is a $\parallel$ -gram. Justify your answer.



8. What are the values of x and y that make QRST a parallelogram?

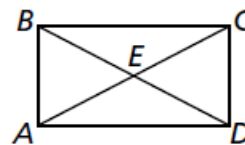


9. In rectangle ABCD, $CD = 18$ and $CE = 19.8$. Find...

a. AB

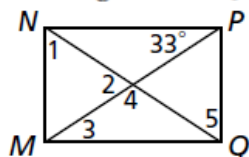
b. BD

c. BC



10. Find the measures of the numbered angles.

rectangle MNPQ



$m\angle 1 =$ _____

$m\angle 2 =$ _____

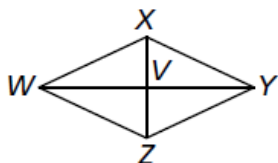
$m\angle 3 =$ _____

$m\angle 4 =$ _____

$m\angle 5 =$ _____

11. In rhombus WXYZ, $WX = (7a + 1)$, $WZ = (9a - 6)$,
And $VZ = (3a)$. Find...

a. WZ

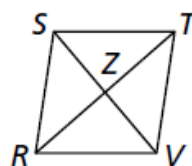


b. XY

c. XZ

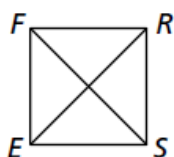
12. In rhombus RSTV, $m\angle TZV = (8n + 18)^\circ$, and
 $m\angle SRV = (9n + 1)^\circ$. Find...

a. $m\angle STV$

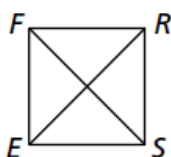


b. $m\angle TRS$

13. Using the given information, decide whether the quadrilateral is a parallelogram, rhombus, rectangle, square, trapezoid, kite, or just a quadrilateral. NAME ALL THE APPLY!!! (i.e. a rectangle is also a parallelogram!) Justify your answer.



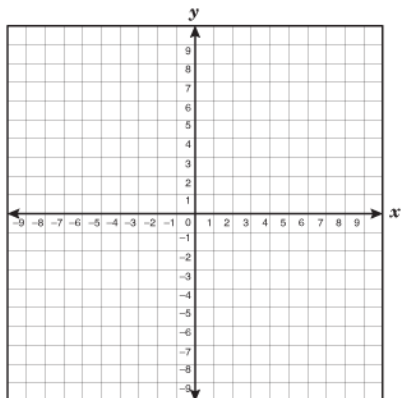
$$\overline{ER} \perp \overline{FS}, \overline{ER} \cong \overline{FS}$$



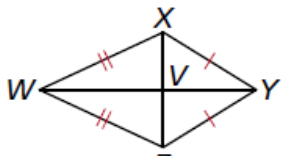
$$\text{b. } \overline{EF} \parallel \overline{RS}, \overline{FR} \parallel \overline{ES}, \overline{EF} \cong \overline{ES}$$

14. Use the diagonals to tell whether the ||-gram is a rectangle, rhombus, or square. Give all names that apply. (remember, if it is NOT a shape, you have to show that it isn't!)

D(-4, -3), H(5, 6), L(8, 3), P(-1, -6)



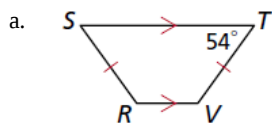
15. In kite WXYZ, $m\angle VXY = 58^\circ$, and $m\angle ZWX = 50^\circ$. Find...



a. $m\angle XYZ$

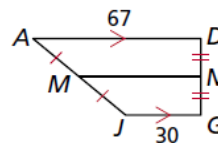
b. $m\angle VZW$

16. Find each measure.



a.

b.



$$m\angle R = \underline{\hspace{2cm}} \quad m\angle S = \underline{\hspace{2cm}}$$

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

17. Find the value of n so that PQXY is isosceles.

