

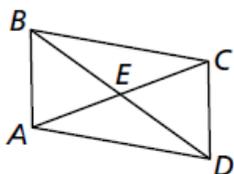
Geometry
Ch 6 Group Review

Name _____

Group# _____ Per: _____

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

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

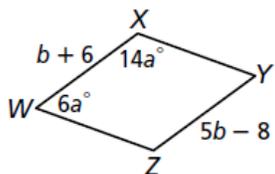


a. AD

b. $m\angle CDA$

c. $m\angle DAB$

3. WXYZ is a \parallel gram. Find...

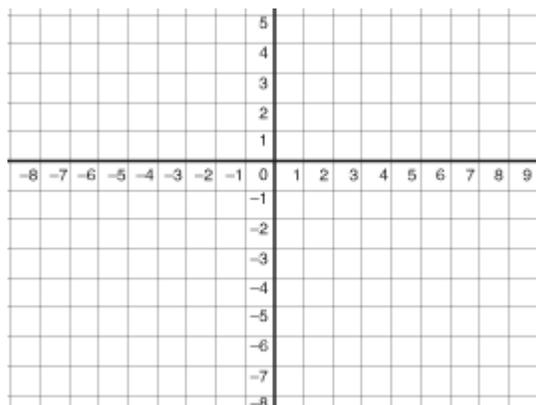


a. YZ

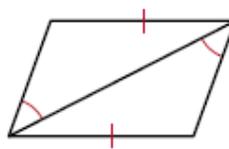
b. $m\angle X$

c. $m\angle Z$

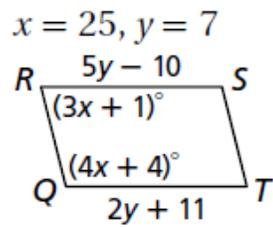
4. Three vertices of \parallel gram RSTV are $R(-8, 1)$, $S(2, 3)$, and $V(-4, -7)$. Find the coordinates of vertex T.



5. Determine if the quadrilateral is a \parallel gram. Justify your answer.

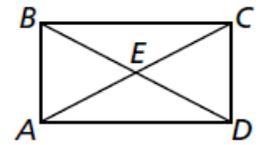


6. Show that the quadrilateral is a //gram for the given values of the variables.



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

Find...



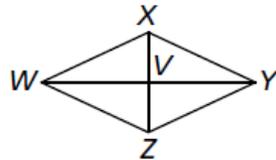
a. AB

b. BD

c. BC

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

a. WZ

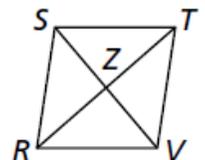


b. XY

c. XZ

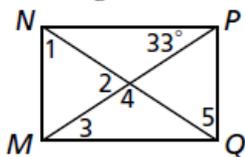
9. In rhombus RSTV, $m\angle TZV = (8n + 18)^\circ$, and $m\angle SRV = (9n + 1)^\circ$. Find...

a. $m\angle STV$



b. $m\angle TRS$

10. Find the measures of the numbered angles.
rectangle *MNPQ*



$m\angle 1 = \underline{\hspace{2cm}}$

$m\angle 2 = \underline{\hspace{2cm}}$

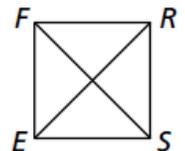
$m\angle 3 = \underline{\hspace{2cm}}$

$m\angle 4 = \underline{\hspace{2cm}}$

$m\angle 5 = \underline{\hspace{2cm}}$

11. Determine whether the conclusion is valid.
Explain.

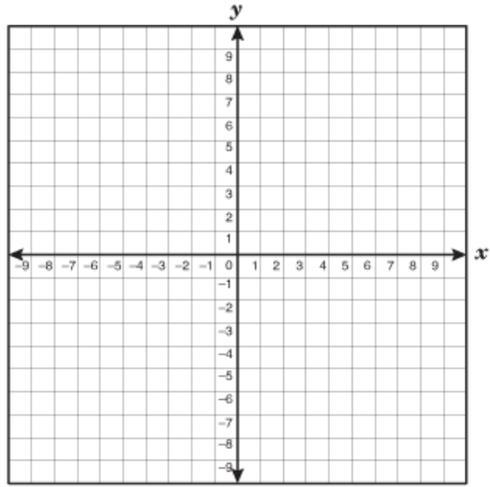
a. Given: $\overline{ER} \perp \overline{FS}$, $\overline{ER} \cong \overline{FS}$
Conclusion: *EFRS* is a square.



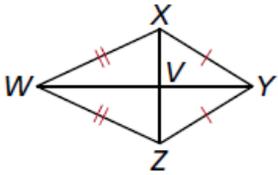
b. Given: $\overline{EF} \parallel \overline{RS}$, $\overline{FR} \parallel \overline{ES}$, $\overline{EF} \cong \overline{ES}$
Conclusion: *EFRS* is a rhombus.

12. Use the diagonals to tell whether the //gram is a rectangle, rhombus, or square. Give all names that apply.

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



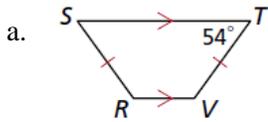
13. In kite WXYZ, $m\angle VXY = 58^\circ$, and $m\angle ZWX = 50^\circ$. Find...



a. $m\angle XYZ$

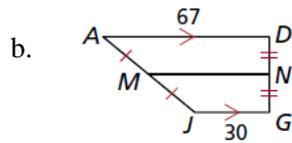
b. $m\angle VZW$

14. Find each measure.



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

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



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

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

