1Geometry Quiz Parallelogram REVIEW

Fill in the blank with the correct word.

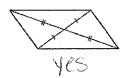
The opposite sides of a parallelogram are parallel

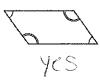
The opposite <u>angles</u> of a parallelogram are <u>longruent</u>.

The consecutive <u>angles</u> of a parallelogram are <u>Supplementary</u>

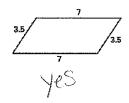
The diagonals of a parallelogram <u>ViSect</u> each other.

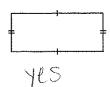
Look at the markings on the picture to determine if the quadrilateral is a parallelogram, and if so, why.



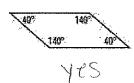


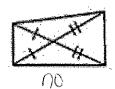






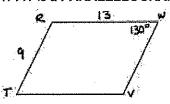




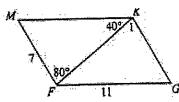


Find the measure of each angle or length of each segment.

RTVW is a PARALLELOGRAM

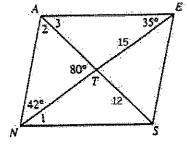


MKGF is a PARALLELOGRAM



$$m \angle MFG = 120 \quad m \angle M = 100$$

AESN is a PARALLELOGRAM



$$m \angle 1 = 35$$
 $m \angle ANS = 77$
 $m \angle NAE = 103$ $m \angle 2 = 58$

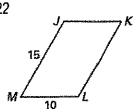
$$AT = \frac{12}{12}$$
 $AS = \frac{24}{24}$

$$NT = 15$$
 $NE = 30$

JKLM is a parallelogram. Find JK and KL.

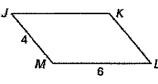
WXYZ is a parallelogram. Find the missing <u>angle</u> measures.

22



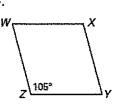
23.

JK = <u>10</u> KL = <u>15</u>



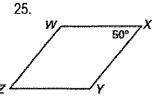
JK = 6 KL = 4

24.



 $m \angle X = 105 m \angle W = 75$

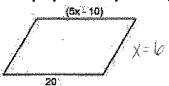
m2Y=75



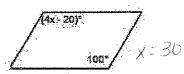
m/z=<u>50</u> m/w=<u>130</u> m/y=<u>130</u>

Use the properties of parallelograms to write and solve an algebraic equation for each picture. Solve for x.

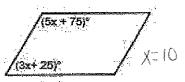
33.



34.



35.



Parallelogram Rule:

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Relationship: Congruent or Supplementary

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Equation:

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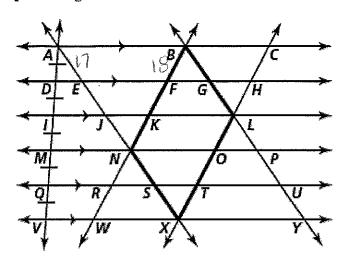
Equation:

 $x = \underline{\emptyset}$

x=_30

x = /0

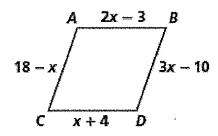
If AE=17 and BF=18, find the measures of the sides of parallelogram BNXL.



54,34

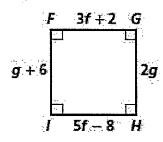
Find the values of the variables and the length of the sides.

rhombus ABDC

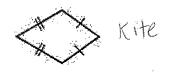


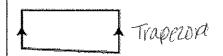
X=7 Sides=11 Find the values of the variables and the length of the sides.

Rectargie square FGHI



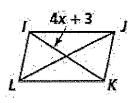
f=5 Sides=12,17 g=10 Give the most precise name for the quadrilaterals.





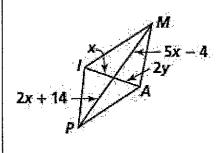
Find the value of the variable for the parallelogram

$$IK = 35$$



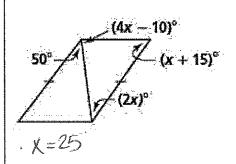
X3.025

Find the values of x and y that make the figure a parallelogram.

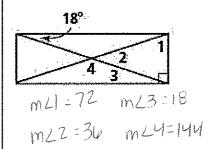


メニシャニス

Find the value of x. Then determine whether or not the figure is a parallelogram. Explain.



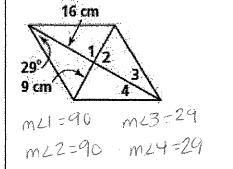
For the parallelogram, give the most precise name and find the measure of the numbered angles



HIJK is a rectangle. Find the value of the variable with the given diagonals.

$$HI = 3x + 7$$
 and $IK = 6x - 11$
 $X = 6$
Diagonals = 25

Find the measure of the numbered angles for the rhombus



Determine whether the quadrilateral can be a parallelogram

One pair of opposite sides is parallel, and the other pair is congruent.

NOT a parallelogram

Determine whether the quadrilateral can be a parallelogram

Opposite angles are congruent and supplementary, but the quadrilateral is not a rectangle.

Paralleligram