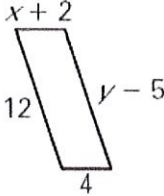


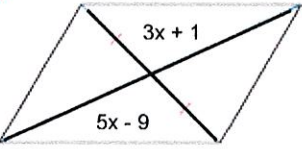
Name _____ Date _____

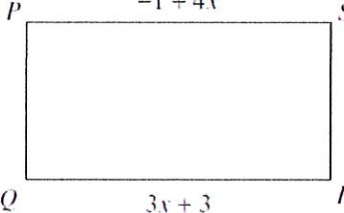
Day 2 – Properties of Rhombi, Squares, Trapezoids and Kites

Find the missing variable in each parallelogram.

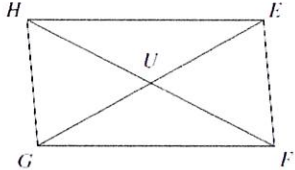
1.  $y-5=12$
 $+5 +5$
 $y=17$
 $x+2=4$
 $-2 -2$
 $x=2$

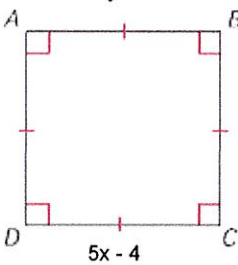
2. $3x+1=5x-9$
 $-5x -5x$
 $-2x+1=-9$
 $-1 -1$
 $-2x=-10$
 $=2 =2$
 $x=5$

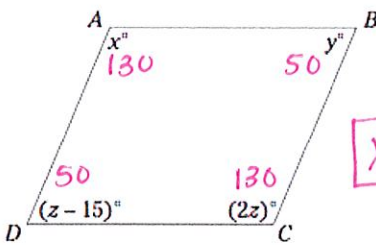


3.  $3x+3=-1+4x$
 $-x=-4$
 $x=4$

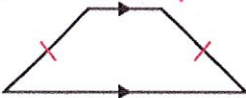
4. $UH=19$
 $FH=5x-7$
 $5x-7=38$
 $5x=45$
 $x=9$

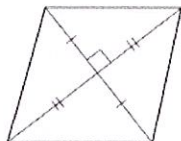


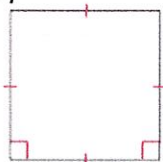
5.  $3x=5x-4$
 $-5x -5x$
 $-2x=-4$
 $-2 -2$
 $x=2$
 $5y+1=2y+4$
 $-2y -2y$
 $3y+1=4$
 $3y=3$
 $y=1$

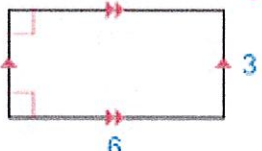
6.  $2z+z-15=180$
 $3z-15=180$
 $3z=195$
 $z=65$
 $x=130$ $y=50$

Decide if the figure is a parallelogram. If yes, can you identify the type of parallelogram? If it is not, explain why not.

7. *No, both sides are not parallel*


8. *yes, rhombus*


9) *yes, square*


10) *yes, rectangle*


11. Suppose points A (1, 2), B (3, 6), and C (6, 4) are three vertices of a parallelogram.

a. Give the coordinates of a point that could be the fourth vertex. Sketch the parallelogram in a coordinate plane.

(4, 0)

b. Explain how to check to make sure the figure you drew in part a is a parallelogram.

opposite sides are parallel (same slope)

c. How many different parallelograms can be formed using A, B, and C as vertices? Sketch each parallelogram and label the coordinates of the fourth vertex.

three

