Name	Date:			
Peri				
Ess	ntial Question: What are the similarities and differences between the special quadrilaterals?			
Quad	ilateral-			
Paral	elogram-			
Mark	nis below inABCD			
⊿ط	By Definition of a Parallelogram:			
1. If a	quadrilateral is a parallelogram,			
	≅ and ≅			
2. If a	quadrilateral is a parallelogram, then its opposite angles are congruent.			
	≅ and ≅			
ຶ່ງ 3. lf a	quadrilateral is a parallelogram, then its consecutive angles are supplementary.			
)	+= and+=			
4. If a	quadrilateral is a parallelogram, then its diagonals bisect each other. [Draw in diagonals and above on —/ABCD, label their intersection boint E)			
	≅ and≅			
Theorem about Rectangles (use Rectangle ABCD below to fill in the blanks): 1. A parallelogram is a rectangle if and only if its diagonals are congruent.				
	≅			
2. All	our angles are right angles.			
	×			

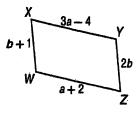
Z



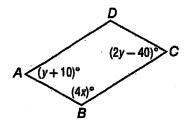
-2 Practice arallelograms

ALGEBRA Find the value of each variable.

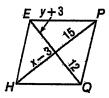
1.

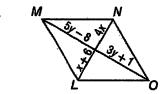


2.



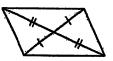
3.

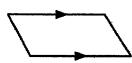




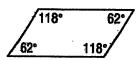
GEBRA Use *RSTU* to find each measure or value.

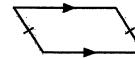
Determine whether each quadrilateral is a parallelogram. Justify your answer.





3.



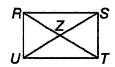


6-4 Practice

Rectangles

ALGEBRA Quadrilateral RSTU is a rectangle.

1. If
$$UZ = x + 21$$
 and $ZS = 3x - 15$, find US .



2. If
$$RZ = 3x + 8$$
 and $ZS = 6x - 28$, find UZ .

3. If
$$RT = 5x + 8$$
 and $RZ = 4x + 1$, find ZT .

4. If
$$m \angle SUT = 3x + 6$$
 and $m \angle RUS = 5x - 4$, find $m \angle SUT$.

5. If
$$m \angle SRT = x + 9$$
 and $m \angle UTR = 2x - 44$, find $m \angle UTR$.

6. If
$$m \angle RSU = x + 41$$
 and $m \angle TUS = 3x + 9$, find $m \angle RSU$.

padrilateral *GHJK* is a rectangle. Find each measure if $m \angle 1 = 37$.

$$1. m \angle 2$$

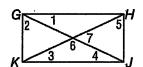
8. $m \angle 3$



10. *m*∠5



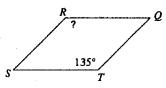
12. $m \angle 7$



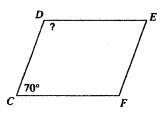
Properties of Parallelograms

Find the measurement indicated in each parallelogram.

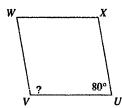
1)



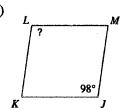
2)



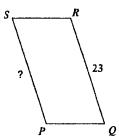
3)



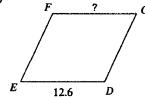
4)



5)

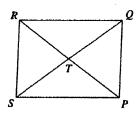


6)

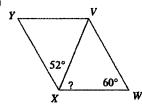


7) RT = 19.8

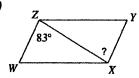
Find RP



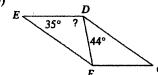
8)



9)



10



HW Quiz Review 1

Date Period

Find the other endpoint of the line segment with the given endpoint and midpoint.

1) Endpoint: (10, 5), midpoint: (-5, 4)

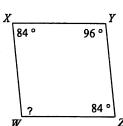
Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

State the most specific name for each figure.



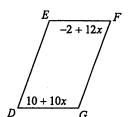


Find the measure of each angle indicated.



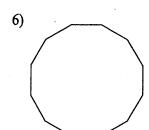
Find the measurement indicated in each parallelogram.

5) Find $m \angle D$

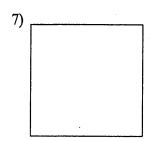


	Formulas:	Distance: $d^2 = \Delta x^2 + \Delta y^2$ or $d^2 = (x_2 - x_1)^2 + (y_2 - y_1)^2$	Midpoint: $M\left(\frac{x_{1}+x_{2}}{2}, \frac{y_{1}+y_{2}}{2}\right)$
	n is the number of sides	Sum of Interior Angles: 180(n – 2)	Interior angle = $\frac{180(n-2)}{n}$
		Sum of Exterior Angle: 360°	Exterior Angle: $\frac{360}{n}$

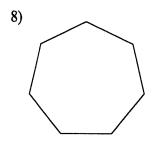
Find the measure of one interior angle in each polygon. Round your answer to the nearest tenth if necessary.



Find the measure of one exterior angle in each polygon. Round your answer to the nearest tenth if necessary.



Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.



Formulas:	Distance: $d^2 = \Delta x^2 + \Delta y^2$ or $d^2 = (x_2 - x_1)^2 + (y_2 - y_1)^2$	Midpoint: $M\left(\frac{x_{1}+x_{2}}{2}, \frac{y_{1}+y_{2}}{2}\right)$
n is the number of sides	Sum of Interior Angles: 180(n-2)	Interior angle = $\frac{180(n-2)}{n}$
	Sum of Exterior Angle: 360°	Exterior Angle: 360