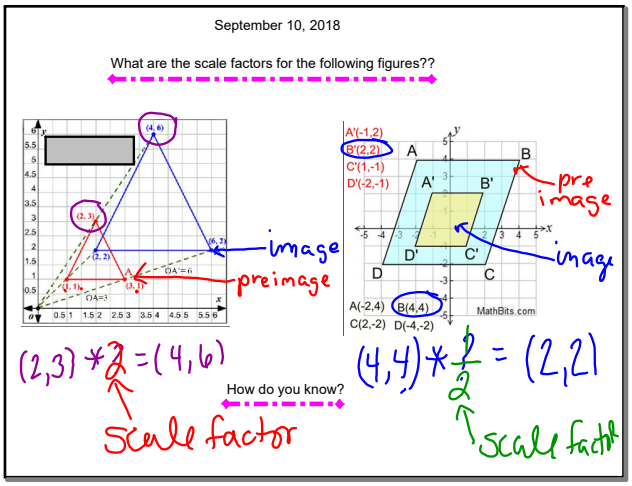
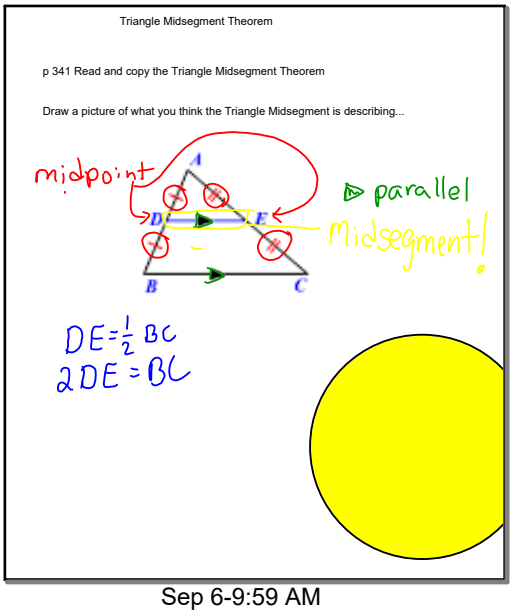


Sep 6-9:58 AM



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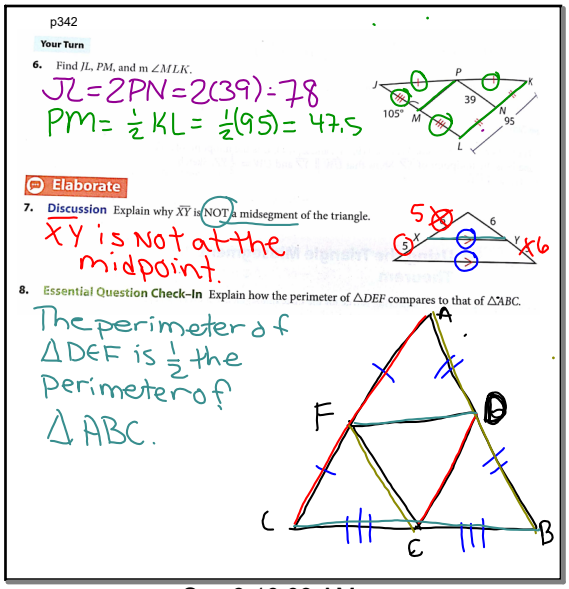
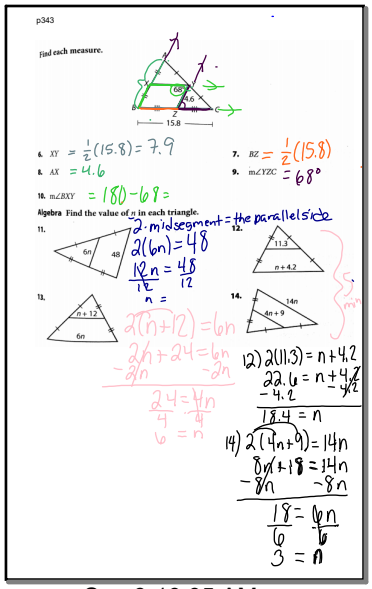
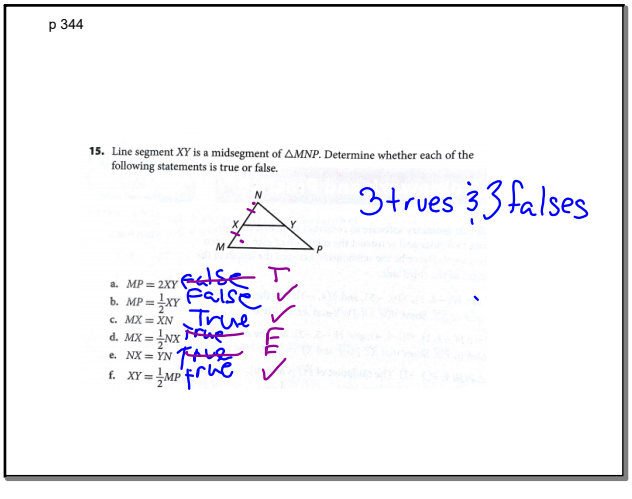


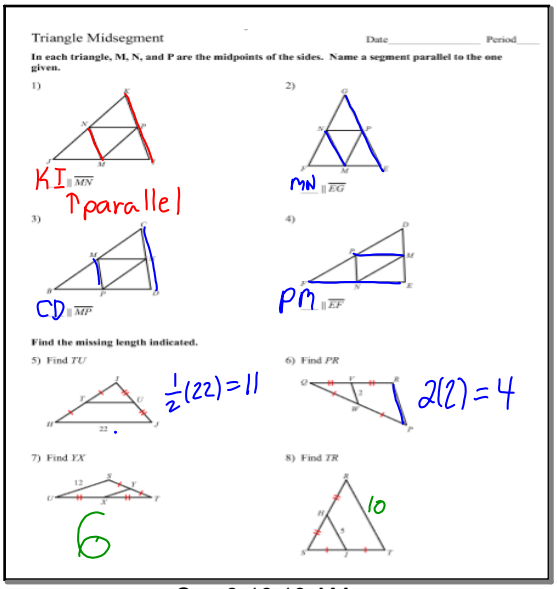
Sep 6-10:03 AM



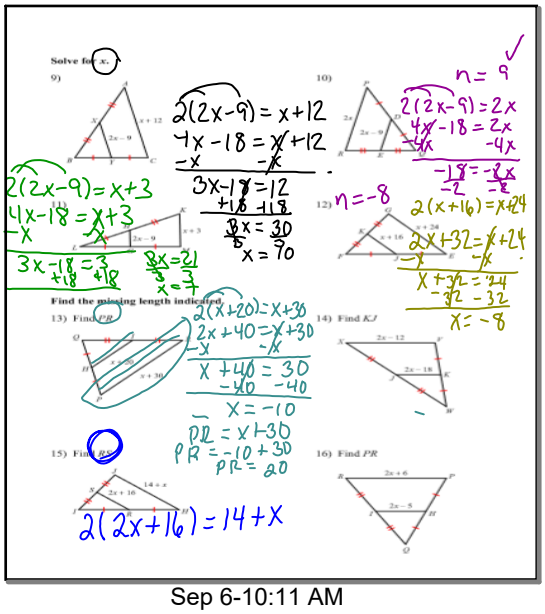
Sep 6-10:05 AM



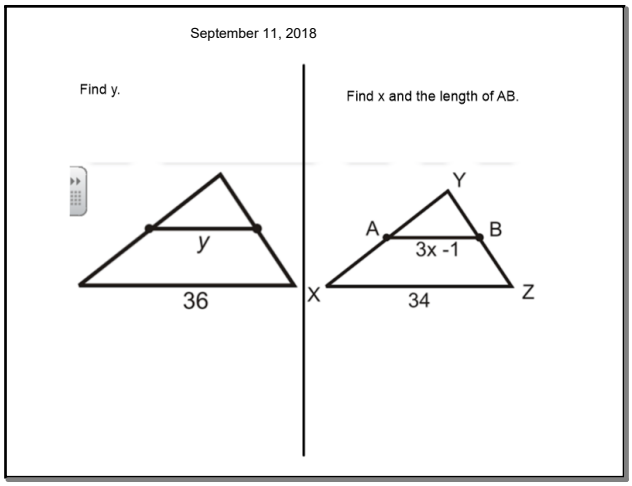
Sep 6-10:05 AM



Sep 6-10:10 AM



Sep 6-10:11 AM



Sep 6-10:07 AM

Parallelogram vocabulary

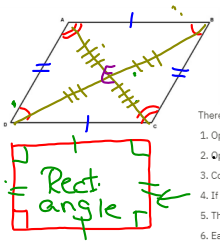
Define the following words and draw a picture

- quadrilateral
- parallelogram
- diagonal

Sep 6-10:08 AM

Properties of parallelograms

One special kind of polygons is called a parallelogram. It is a quadrilateral where both pairs of opposite sides are parallel.



There are six important properties of parallelograms to know:

1. Opposite sides are congruent (AB = DC), AD = BC.
2. Opposite angels are congruent (D = B), A = C
3. Consecutive angles are supplementary (A + D = 180°). C + B = 180 B + A = 180 D+C=180
4. If one angle is right, then all angles are right.
5. The diagonals of a parallelogram bisect each other.
6. Each diagonal of a parallelogram separates it into two congruent triangles. ΔAEB ≅ ΔCED, ΔAED ≅ ΔCEB

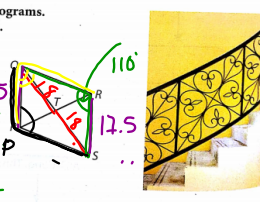
Sep 6-10:12 AM

p 363 copy theorems
p 364 copy theorem

p368 10-13

A staircase handrail is made from congruent parallelograms. In □PQRS, PQ = 17.5, ST = 18, and m∠QRS = 110°. Find each measure. Explain.

10. RS = 17.5
11. QT = 18
12. m∠PQR ∠PQR + ∠QRS = 180 ∠PQR + 110 = 180 −110 −110 ∠PQR = 70
13. m∠SPQ = 110



Sep 6-10:14 AM

p 371 copy theorem
p 372 copy theorems
p 373 copy theorem

p 378

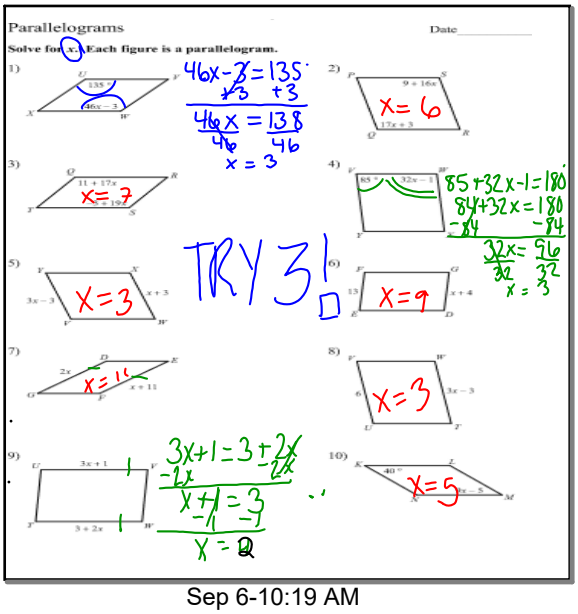
Show that each quadrilateral is a parallelogram for the given values of the variables.

5. $x = 4$ and $y = 9$
6. $u = 8$ and $v = 3.5$

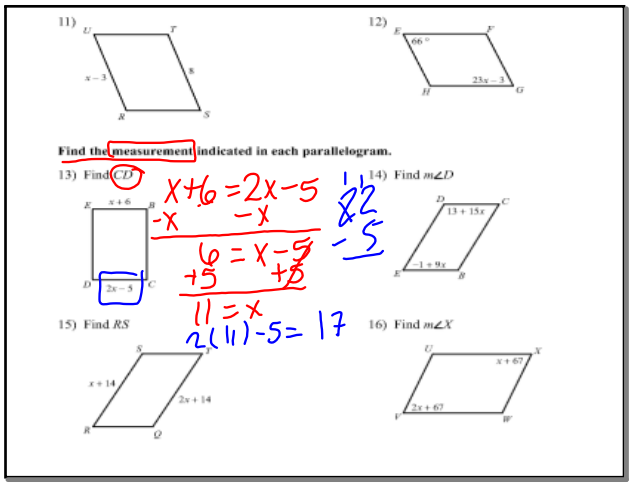
Determine if each quadrilateral must be a parallelogram. Justify your answer.

7. Parallel
8. Yes AO MM
9. No JG CM
10.
11. 180 = ?+107 SF CoL Yes
12.

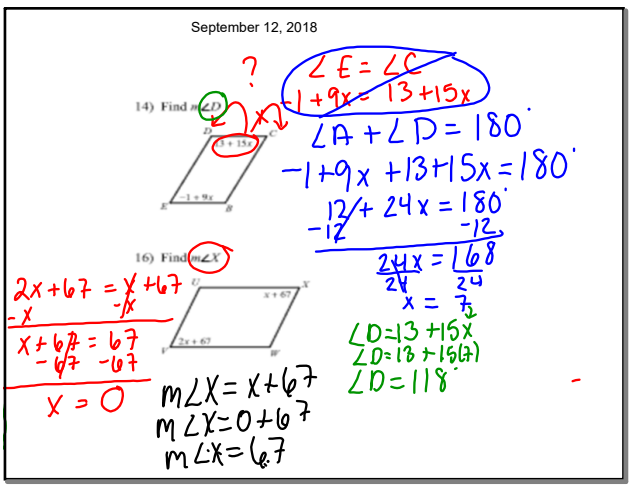
Sep 6-10:16 AM



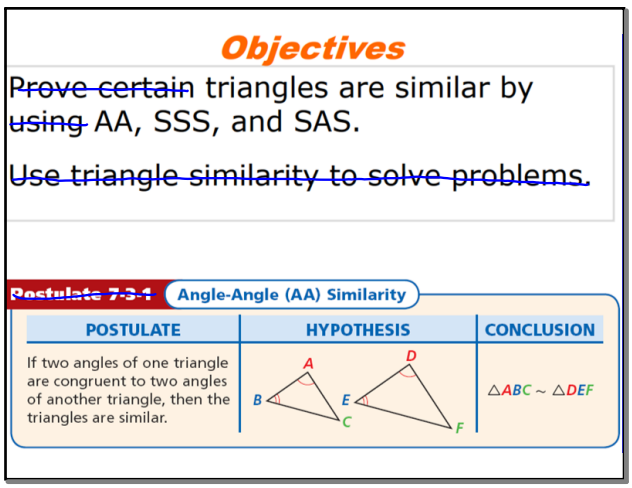
Sep 6-10:19 AM



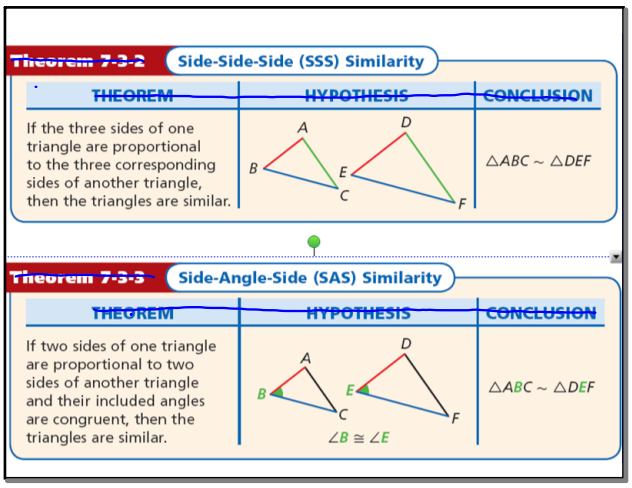
Sep 6-10:19 AM



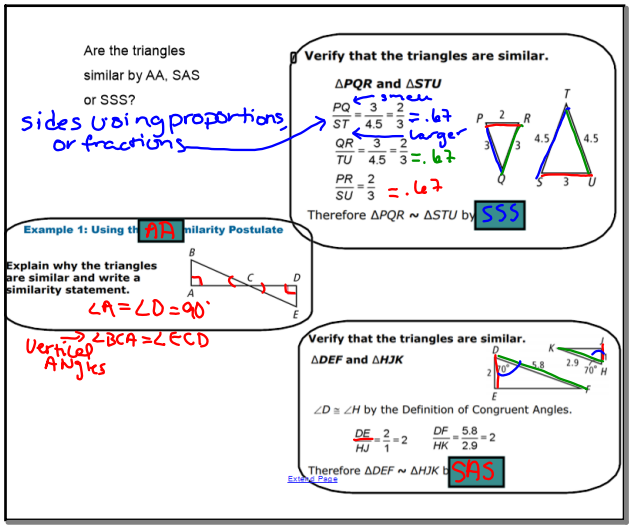
Sep 11-11:46 AM



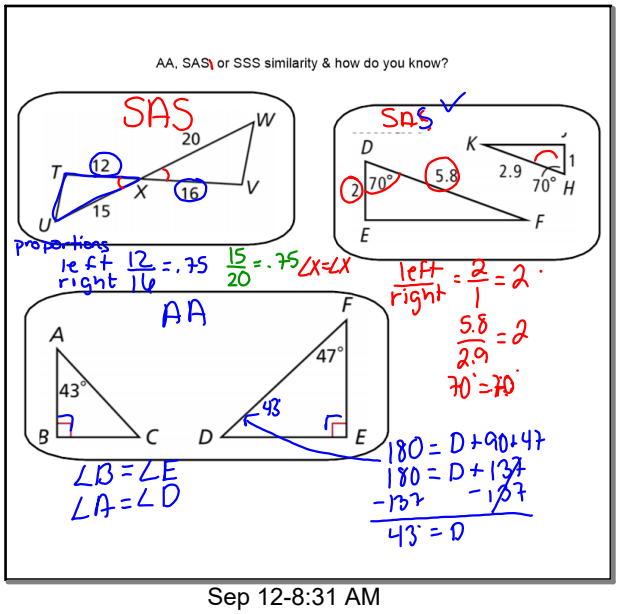
Sep 12-8:29 AM



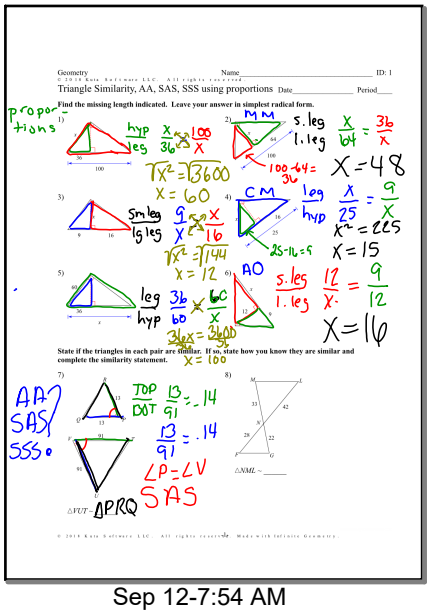
Sep 12-8:30 AM



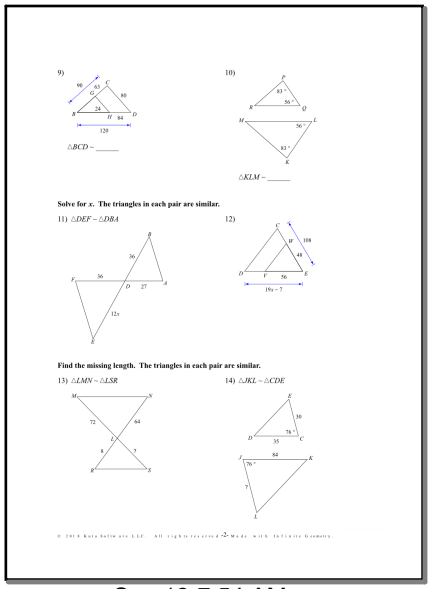
Sep 12-8:30 AM



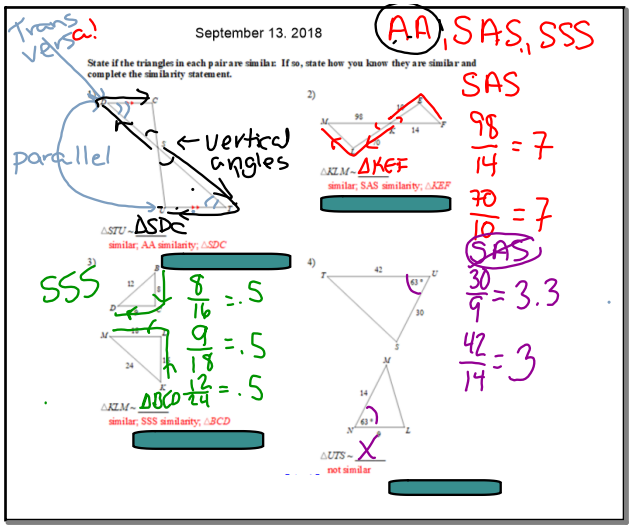
Sep 12-8:31 AM



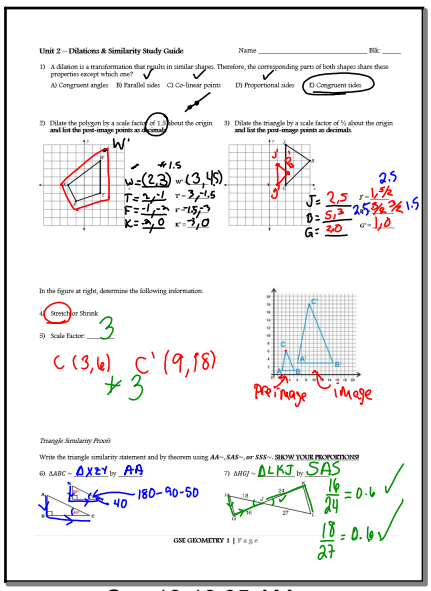
Sep 12-7:54 AM



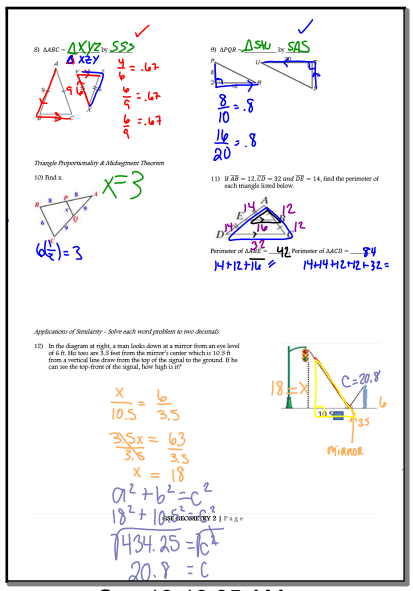
Sep 12-7:54 AM



Sep 13-7:52 AM



Sep 13-10:05 AM



Sep 13-10:05 AM

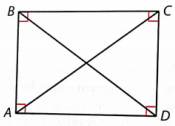
September 12, 2018

p 384 property of rectangles

p 385 property of rhombuses

p 388

Find the lengths using rectangle *ABCD*.



2. $AB = 21$; $AD = 28$. What is the value of $AC + BD$?

3. $BC = 40$; $CD = 30$. What is the value of $BD - AC$?

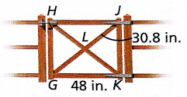
4. An artist connects stained glass pieces with lead strips. In this rectangular window, the strips are cut so that $FH = 34$ in. Find JG. Explain.

Sep 6-10:21 AM

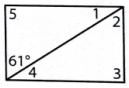
The rectangular gate has diagonal braces. Find each length.

5. Find HJ.

6. Find HK.



7. Find the measure of each numbered angle in the rectangle.



8.

Sep 6-10:27 AM

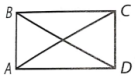
p 395 theorem

p 396 theorems

p399-400

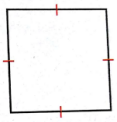
Determine whether each quadrilateral must be a rectangle. Explain.

3.



Given: $BD = AC$

4.



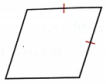
Sep 6-10:28 AM

p 400

Each quadrilateral is a parallelogram. Determine whether each parallelogram is a rhombus or not.

5.

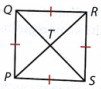
6.



Give one characteristic about each figure that would make the conclusion valid.

7. Conclusion: *JKLM* is a rhombus.

8. Conclusion: *PQRS* is a square.

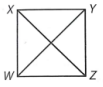


Sep 6-10:30 AM

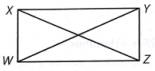
p 401

In Exercises 13–16, Determine which quadrilaterals match the figure: parallelogram, rhombus, rectangle, or square? List all that apply.

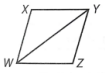
13. Given: $\overline{XY} \cong \overline{ZW}$, $\overline{XY} \parallel \overline{ZW}$, $\overline{WY} \cong \overline{XZ}$, $\overline{WY} \perp \overline{XZ}$



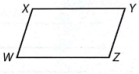
14. Given: $\overline{XY} \cong \overline{ZW}$, $\overline{XW} \cong \overline{ZY}$, $\overline{WY} \cong \overline{ZX}$



15. Given: $\angle WXY \cong \angle YZW$, $\angle XWZ \cong \angle ZYX$, $\angle XWY \cong \angle YWZ$, $\angle XYW \cong \angle ZYW$



16. Given: $m\angle WXY = 130°$, $m\angle XWZ = 50°$, $m\angle WZY = 130°$



Sep 6-10:31 AM

In Exercises 13–16, Determine which quadrilaterals match the figure: parallelogram, rhombus, rectangle, or square? List all that apply.

13. Given: $\overline{XY} \cong \overline{ZW}$, $\overline{XY} \parallel \overline{ZW}$, $\overline{WY} \cong \overline{XZ}$, $\overline{WY} \perp \overline{XZ}$

14. Given: $\overline{XY} \cong \overline{ZW}$, $\overline{XW} \cong \overline{ZY}$, $\overline{WY} \cong \overline{ZX}$

15. Given: $\angle WXY \cong \angle YZW$, $\angle XWZ \cong \angle ZYX$, $\angle XWY \cong \angle YWZ$, $\angle XYW \cong \angle ZYW$

16. Given: $m\angle WXY = 130°$, $m\angle XWZ = 50°$, $m\angle WZY = 130°$

Sep 6-10:31 AM

Quadrilateral G.O.

Quadrilaterals – Properties Chart

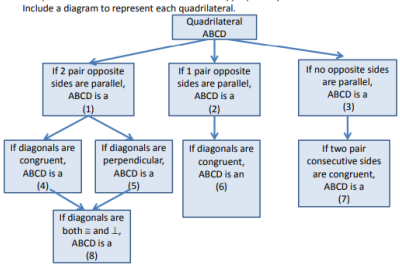
Complete the properties chart for each quadrilateral. Tell how many and which angles or sides fit each description. Tell the characteristics of the diagonals for each quadrilateral.

Figure	Congruent Angles	Congruent Sides	Parallel Sides	Diagonals
Parallelogram				
Rectangle				
Rhombus				
Square				
Trapezoid				
Isosceles Trapezoid				
Kite				

Sep 6-10:32 AM

Quadrilaterals – Flow Chart

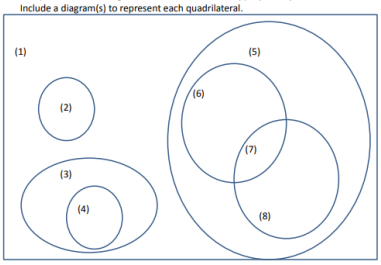
Complete the flow chart with the name of the appropriate quadrilateral. Include a diagram to represent each quadrilateral.



Sep 6-10:34 AM

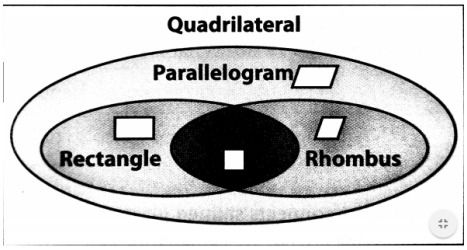
Quadrilaterals – Venn Diagram

Complete the Venn diagram with the name of the appropriate quadrilateral. Include a diagram(s) to represent each quadrilateral.



Sep 6-10:34 AM

Let's discuss this...



Sep 6-10:40 AM

September 13, 2018

Sep 6-10:34 AM

p 404 Four Kite Theorem

p 405 Thee Isosceles Trapezoid Theorems

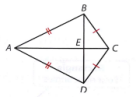
p 408 Trapezoid midsegment Theorem

Sep 6-10:35 AM

p 410

Evaluate: Homework and Practice

In kite $ABCD$, $m\angle BAE = 28°$ and $m\angle BCE = 57°$. Find each measure.



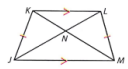
1. $m\angle ABE$
2. $m\angle CBE$
3. $m\angle ABC$
4. $m\angle ADC$

Sep 6-10:44 AM

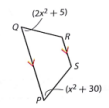
p 412-413

Use the isosceles trapezoid to find each measure or value.

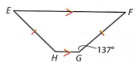
7. $LJ = 19.3$ and $KN = 8.1$. Determine MN.



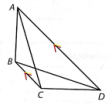
8. Find the positive value of x so that trapezoid $PQRS$ is isosceles.



9. In isosceles trapezoid $EFGH$, use the Same-Side Interior Angles Postulate to determine $m\angle E$.



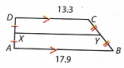
10. $AC = 3y + 12$ and $BD = 27 - 2y$. Determine the value of y so that trapezoid $ABCD$ is isosceles.



Sep 6-10:44 AM

Find the unknown segment lengths in each trapezoid.

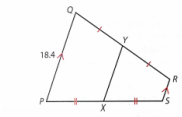
11. In trapezoid $ABCD$, find XY.



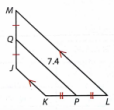
12. In trapezoid $EFGH$, find FG.

Sep 6-10:45 AM

13. In trapezoid $PQRS$, $PQ = 4RS$. Determine XY.

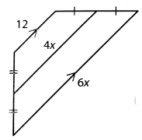


14. In trapezoid $JKLM$, $PQ = 2JK$. Determine LM.

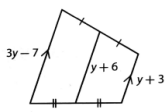


Algebra Find the length of the midsegment of each trapezoid.

18.



19.



Sep 6-10:45 AM

Study Guide

Sep 6-11:05 AM

Quiz

Sep 6-12:47 PM