From the U4 test...

Find the x-intercept: y = 7/4x + 21

$$y = \frac{7}{4}x + 21$$

$$x = \frac{7}{4}x + 21$$

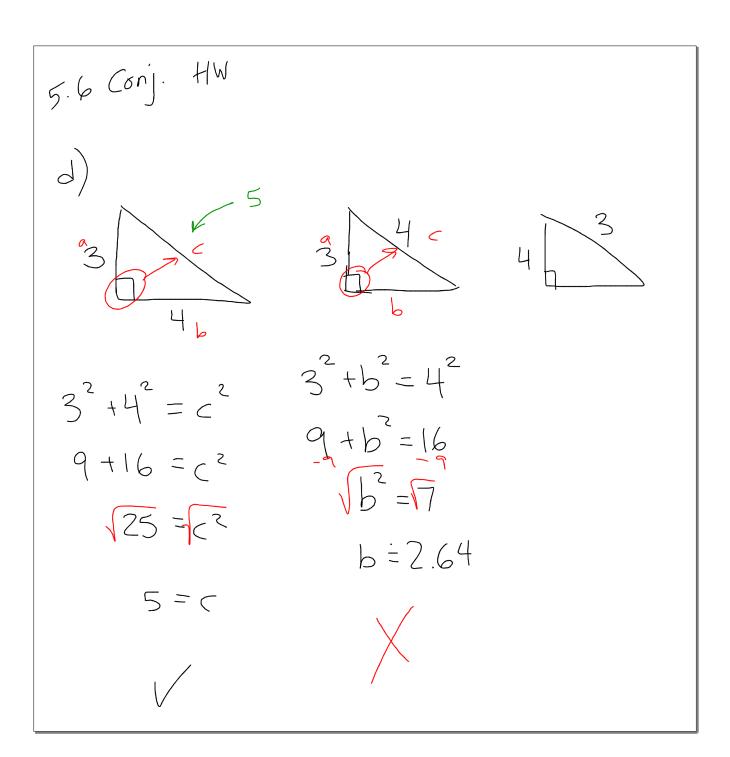
$$x = \frac{7}{4}x + 21$$

$$-21 = \frac{7}{4}x + 21$$

$$-21 = \frac{7}{4}x + 21$$

$$-84 = \frac{7}{7}x$$

$$-12 = x$$



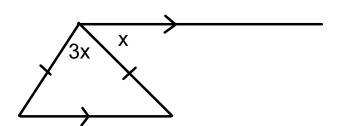
Homework Questions?

20. Math Contest The measure of ∠BCA is

A 30°

p393

- B 36°
- C 45°
- D 60°

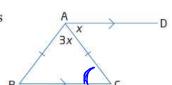


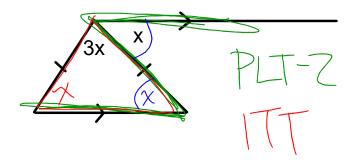
Homework Questions?

p393

20. Math Contest The measure of ∠BCA is

- A 30°
- B 36°
- C 45°
- D 60°



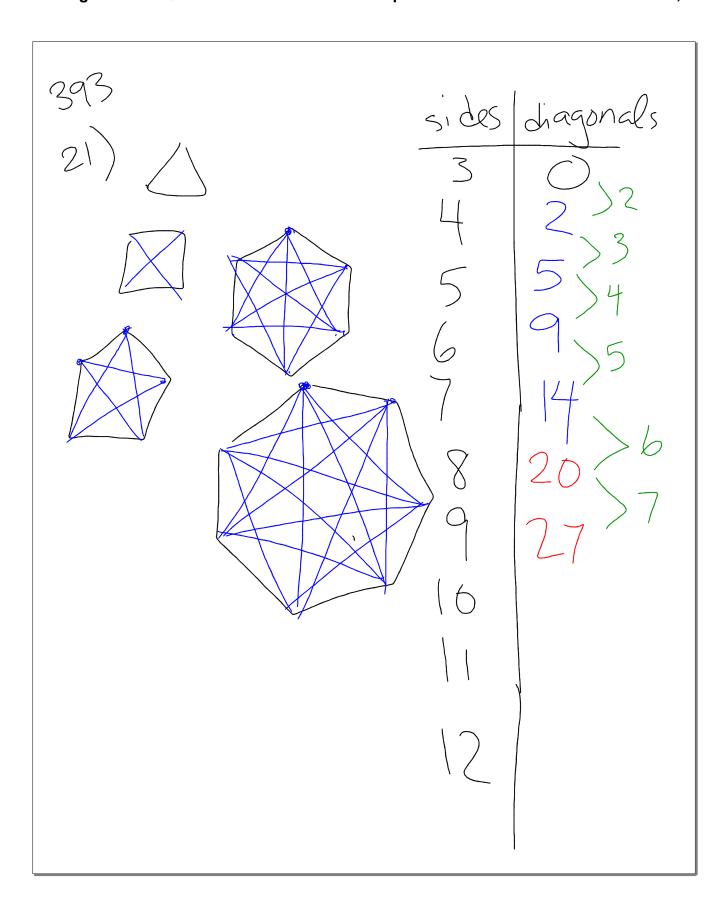


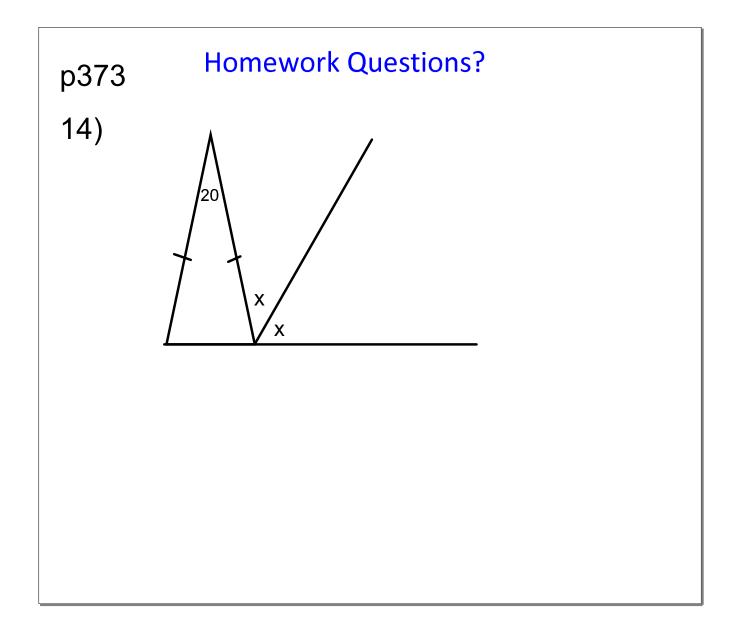
$$3x + x + x = 180$$

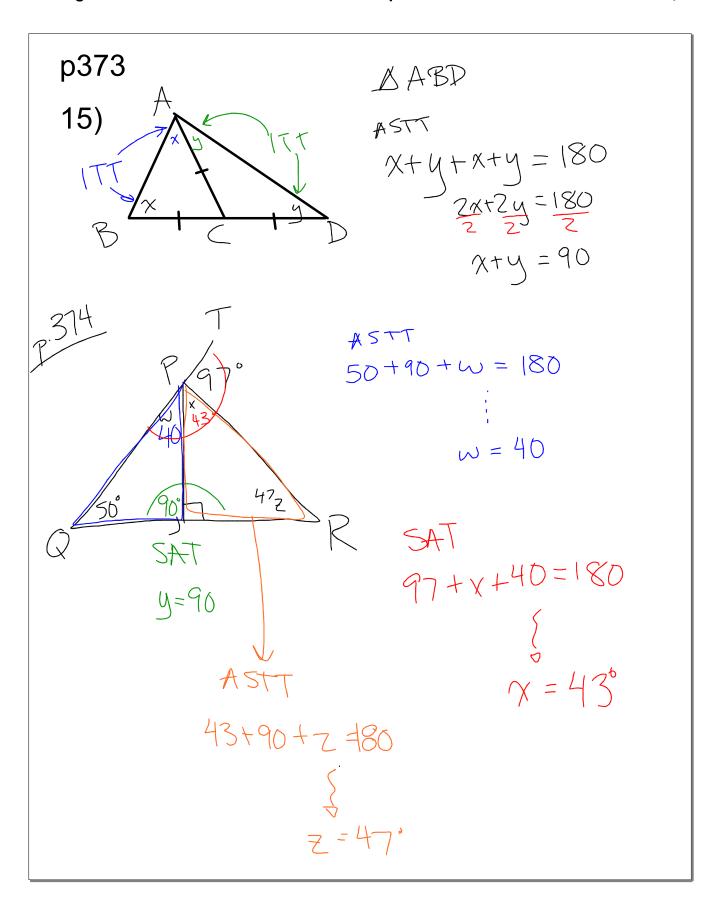
$$5x = 180$$

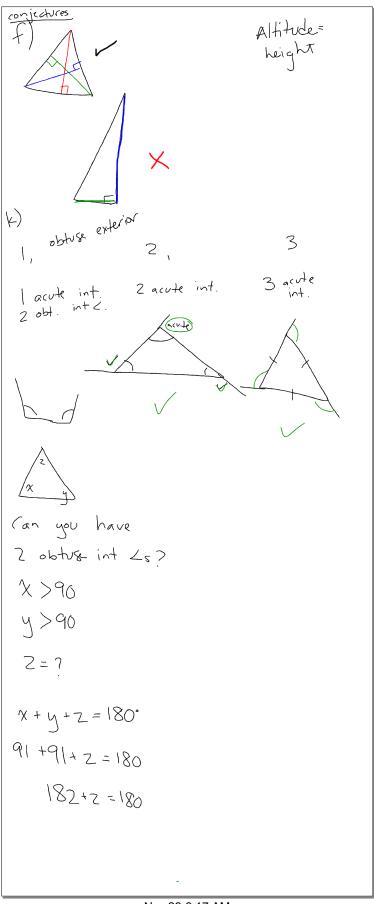
$$5x = 180$$

$$\frac{\chi = 36}{256}$$

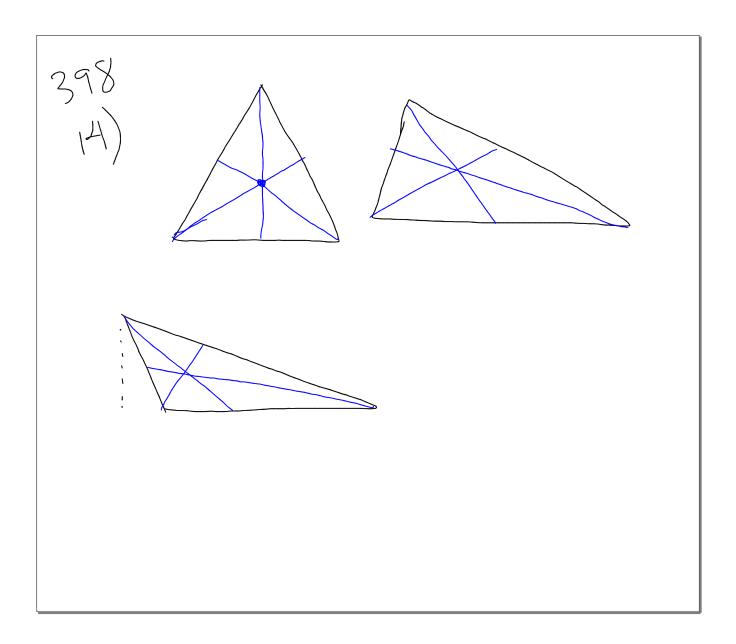


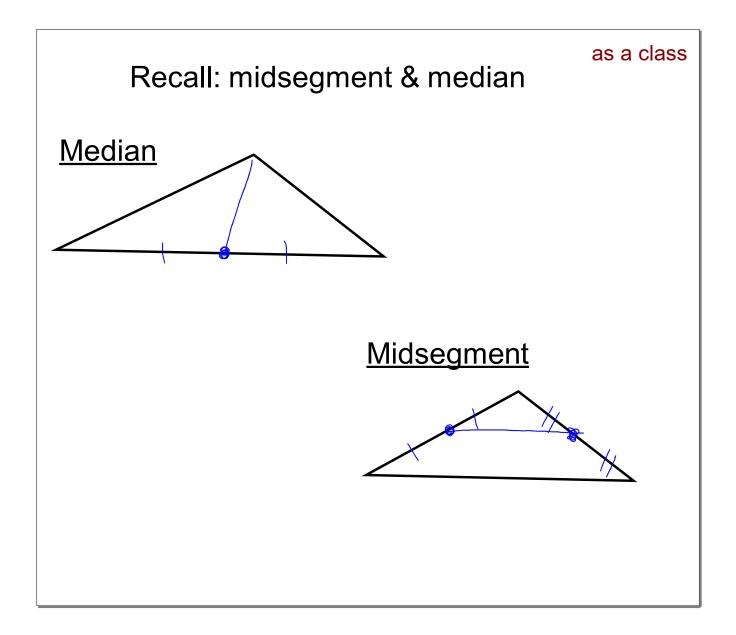






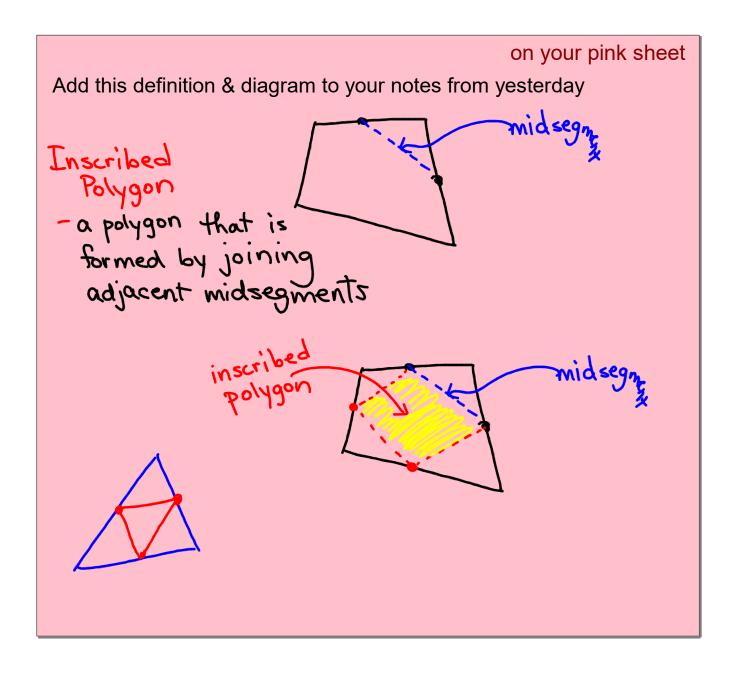
Nov 29-8:17 AM





as a class For the following triangles, draw the: perpendicular altitude median bisector In what triangle are these all the same line? equilateral isosceles

as a class For the following triangles, draw the: perpendicular median bisector In what triangle are these all the same line? equilateral isosceles



I'll hand out protractors.

handout 5.5 (back of 5.3)

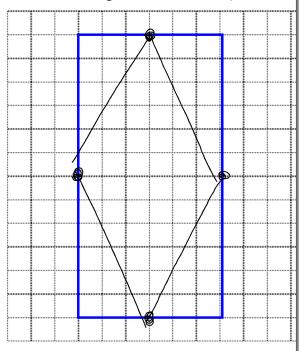
Complete the exploration with your neighbour

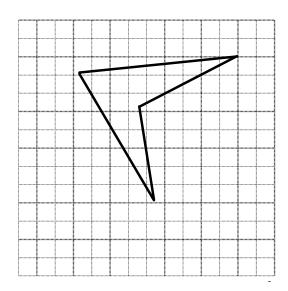
For each of the following polygons draw the shape described that is distinctly that shape (ie: a parallelogram that is not close to a rhombus, rectangle or square), then follow these 4 steps:

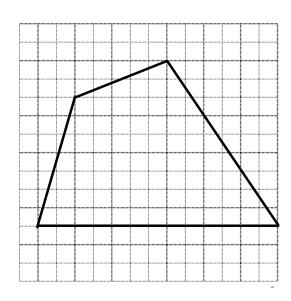
- 1. Locate the midpoint of each side of the polygon.
- 2. Join the adjacent midpoints (midsegments) to create an inscribed polygon.
- 3. Measure side lengths and angles of the inscribe polygon. Add labels to show equal side lengths and 90 degree angles.
- 4. Classify the inscribed polygon as specifically as you can.

Rectangle

Draw a rectangle that is not a square.





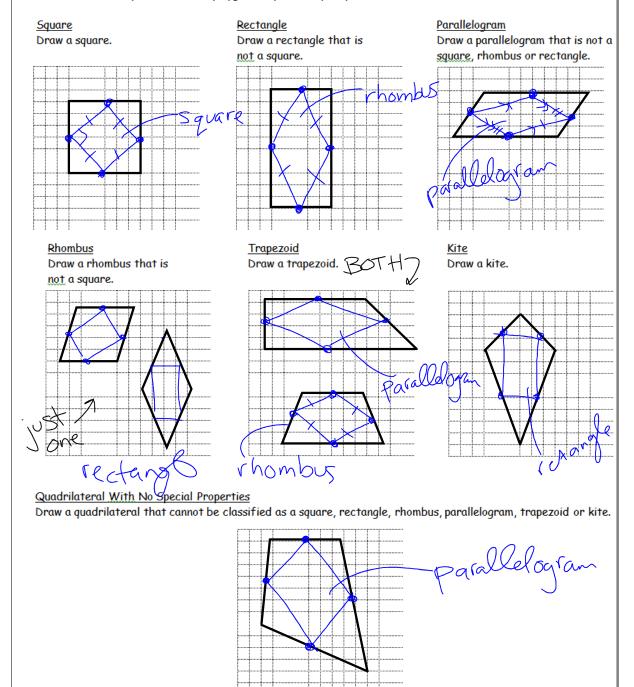


handout 5.5 (back of 5.3)

Investigation: Midsegments of Polygons

For each of the following polygons you will draw the shape described, then follow these 3 steps:

- Locate the midpoint of each side of the polygon.
- 2. Join the adjacent midpoints to create an inscribed polygon.
- 3. Classify the inscribed polygon as specifically as you can.



May 16-12:10 PM

Complete the table	handout 5.5 (back of 5			
Original Polygon	Inscribed Polygon Formed by Midsegments (use the most specific classification). Include a sketch.			
Square	Square			
Rectangle	Thombus			
Parallelogram	parallelogram			
Rhombus	rectangle			
Trapezoid	regular trapezoid trapezoid Thombus parallelogram			
Kite	Tectangle			
Quadrilateral	parallelogram			

^{*}Joining adjacent midpoints of any quadrilateral forms an inscribed polygon that is at least a parallelogram *

Homework:

Page 405 # 6, 7b, 8, 10, 16*
& finish summary card & this handout

Unit 5 Pink Sheet - Checklist

- 1. Angle Theorems
 2. Angles in Polygons
 Total Interior Angles
 Exterior Angle
 Number of sides
 1. Definitions/vocal 1. Definitions/vocabulary printed on pink
- Triangle Side-Splitting Theorem Web. Straight
 Median in a Triangle property
 Inscribed Polygon properties Attach 5.5
 Conjectures

- 6. Conjectures
- 7. what they are
- 8. How to prove true
- True Example
 - 1. How to prove false
 - False example

HW: p405 #6, 7b, 8, 10, 16*

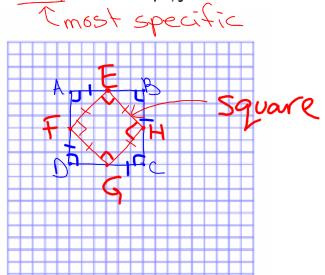
Go back and try e) and i) from conjectures HW

Complete Summary Card (Pink sheet)

Extra details		

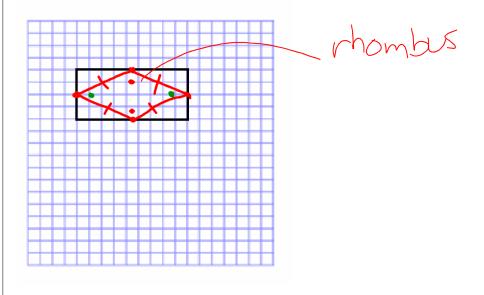
Purt B: The Square

- 1. Draw a square and label its vertices.
- 2. Locate and label the midpoint of each side of the square.
- 3. Join the adjacent midpoints to create an inscribed polygon.
- 4. Classify the inscribed polygon.



Part C The Rectangle

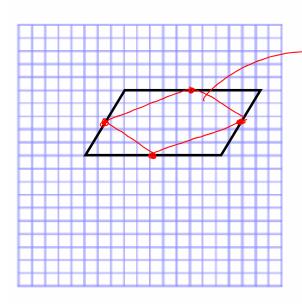
- 1. Draw a rectangle that is not a square and label its vertices.
- 2. Locate and label the midpoint of each side of the rectangle.
- 3. Join the adjacent midpoints to create an inscribed polygon.
- 4. Classify the inscribed polygon.



Paralle logram

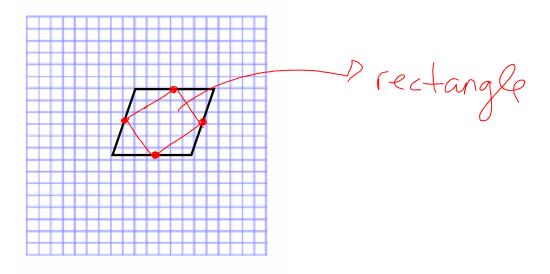
Part U: The Parallelogram.

- 1. Draw a parallelogram that is not a square or rectangle and label its vertices.
- 2. Locate and label the midpoint of each side of the parallelogram.
- 3. Join the adjacent midpoints to create an inscribed polygon.
- 4. Classify the inscribed polygon.



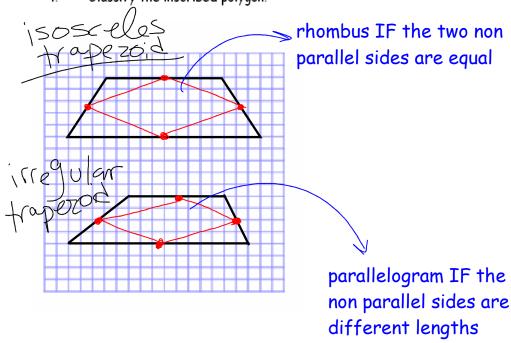
Part E: The Rhombus

- 1. Draw a rhombus that is not a square and label its vertices.
- 2. Locate and label the midpoint of each side of the rhombus.
- 3. Join the adjacent midpoints to create an inscribed polygon.
- Classify the inscribed polygon.



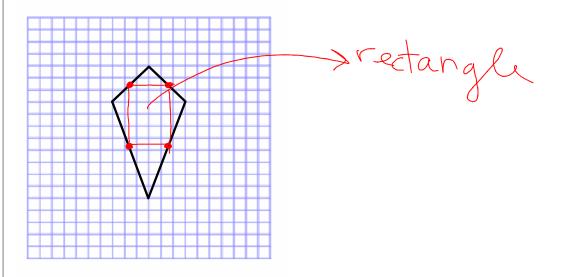
Part F: The Trapezoid

- 1. Draw a trapezoid and label its vertices.
- 2. Locate and label the midpoint of each side of the trapezoid.
- 3. Join the adjacent midpoints to create an inscribed polygon.
- 4. Classify the inscribed polygon.



Part The Kite

- 1. Draw a kite and label its vertices.
- Locate and label the midpoint of each side of the kite.
- 3. Join the adjacent midpoints to create an inscribed polygon.
- Classify the inscribed polygon.



Part A Quadrilateral With No Special Properties.

- 1. Draw a quadrilateral that cannot be classified as a square, rectangle, rhombus, parallelogram, trapezoid or kite.
- 2. Locate and label the midpoint of each side of the kite.
- 3. Join the adjacent midpoints to create an inscribed polygon.
- 4. Classify the inscribed polygon.

