

Quiz - Wed 2/1**Trapezoids**

Due Mon 2/6

- Ch 8 Review, pp.326-327, #7-29

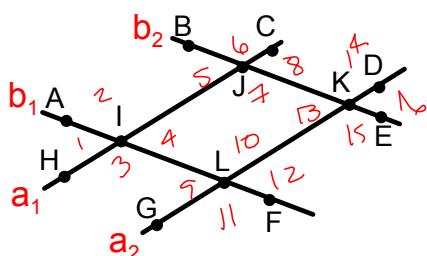
Due Thurs. 2/9

- Ch 9 Review, pp. 371-375 #8-36; 46-52

Test #4 - Thurs. 9 Feb**Ch 7 Trapezoids, Ch 8 Transformations, Ch 9 Area**

Due Mon. 2/13

- Midterm Review, pp. 330-336, #1-125

Final Exam - Fri. 2/17

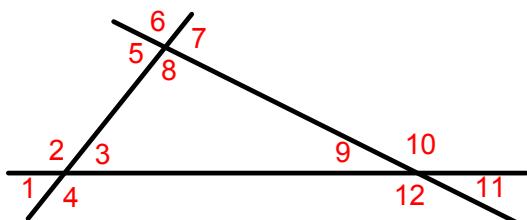
Given $a_1 \parallel a_2$ and $b_1 \parallel b_2$,
what else do we know?

$JKLI$ is a parallelogram
 $\angle 1 = \angle K$, $\angle L = \angle J$, $\angle 4 = \angle 13$
 $\angle 7 = \angle 10$

all pairs of vert. \angle 's are =
 all linear pairs are suppl.

supplementary interior \angle 's in same side of transversal
 $\angle 4 & 10$, $7 & 13$, $2 & 5$, $12 & 15$, $3 & 9$, $8 & 14$, $10 & 13$, $4 & 7$

equal corresponding \angle 's :

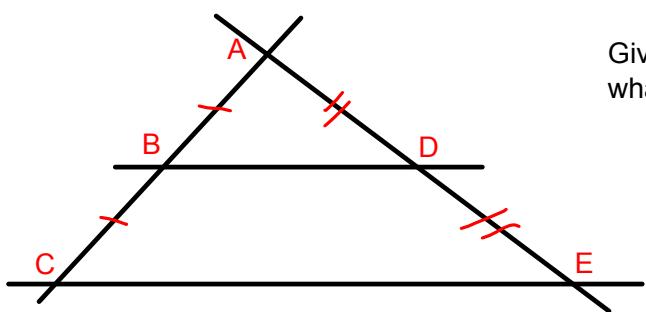
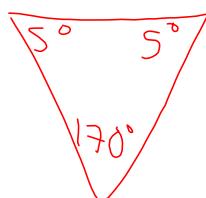


$$\angle 3 + \angle 8 + \angle 9 = 180^\circ$$

$$\angle 2 = \angle 8 + \angle 9 = \angle 4$$

$$\angle 12 = \angle 3 + \angle 8 = \angle 10$$

$$\angle 7 = \angle 3 + \angle 9 = \angle 5$$



Given $AB=BC$ and $AD=DE$,
what else do we know?

BD is a midsegment

$BD \parallel CE$

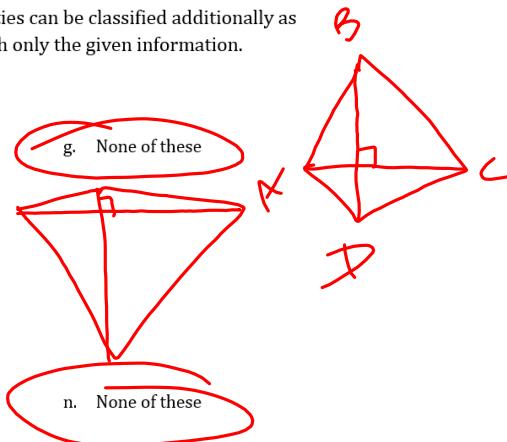
$$BD = \frac{1}{2} CE$$

$BDEC$ is a trapezoid

Part IV – Determine whether each of the quadrilaterals with the given properties can be classified additionally as any special quadrilaterals. Circle each correct answer that can be assumed with only the given information. Drawing a picture may help in many situations.

43. Quadrilateral $ABCD$ with $AC = BD$

- a. Trapezoid
- b. Isosceles trapezoid
- c. Parallelogram
- d. Rectangle
- e. Rhombus
- f. Square
- g. None of these



44. Quadrilateral $ABCD$ with $AC \perp BD$

- h. Trapezoid
- i. Isosceles trapezoid
- j. Parallelogram
- k. Rectangle
- l. Rhombus
- m. Square
- n. None of these

45. Quadrilateral $ABCD$ with AC bisecting BD

- a. Trapezoid
- b. Isosceles trapezoid
- c. Parallelogram
- d. Rectangle
- e. Rhombus
- f. Square
- g. None of these

46. Quadrilateral $ABCD$ with $AB = CD$

- h. Trapezoid
- i. Isosceles trapezoid
- j. Parallelogram
- k. Rectangle
- l. Rhombus
- m. Square
- n. None of these

