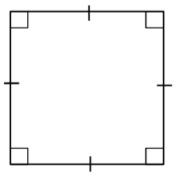
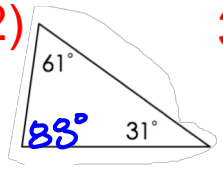
Do Now

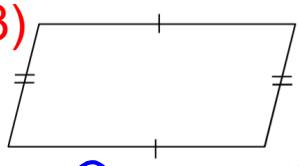
Name the following Figures

1) 

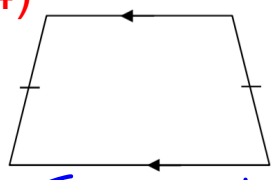
Square

2) 

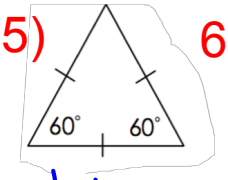
Acute △
Scalene △

3) 

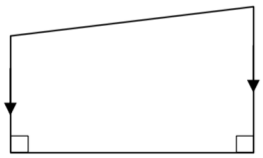
Parallelogram

4) 

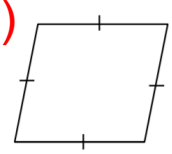
Trapezoid

5) 

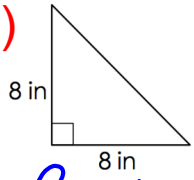
Equilateral △

6) 

Trapezoid

7) 

Rhombus

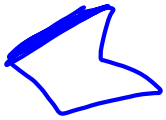
8) 

Right △
Isosceles △

Jan 28-7:57 PM

Polygon

a closed figure formed by three or more line segements, called sides



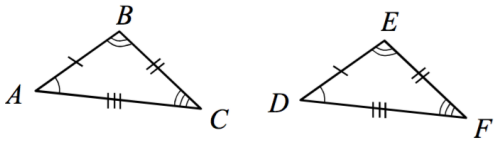
Congruent Polygons

- Have the same angles & sides
- All corresponding parts (Angles and sides) are congruent

Jan 28-7:47 PM

Congruency Statement

A valid congruency statement must match all corresponding angles & sides.



$\Delta ABC \cong \Delta DEF$

Congruency Statement

$\angle A \cong \angle D$

$\angle B \cong \angle E$

$\angle C \cong \angle F$

$\overline{AB} \cong \overline{DE}$

$\overline{BC} \cong \overline{EF}$

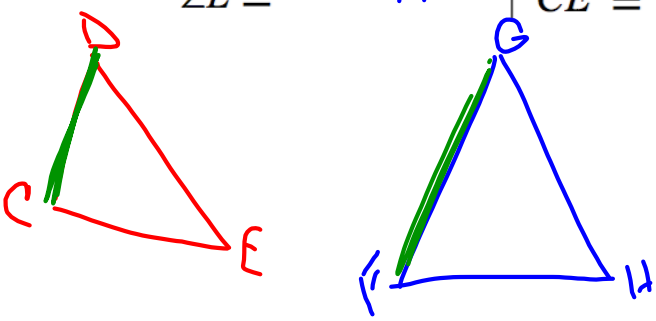
$\overline{AC} \cong \overline{DF}$

Jan 28-8:03 PM

Identifying congruent parts given a congruency statement

$\Delta CDE \cong \Delta FGH$

$\angle C \cong$	$\angle F$	$\overline{CD} \cong$	$\overline{FG}$
$\angle D \cong$	$\angle G$	$\overline{DE} \cong$	$\overline{GH}$
$\angle E \cong$	$\angle H$	$\overline{CE} \cong$	$\overline{FH}$



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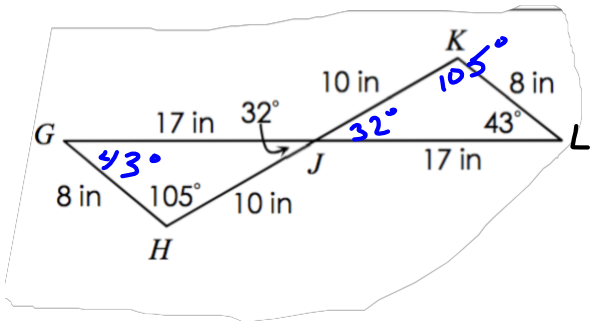
Writing a Congruency Statement



$\triangle GHJ \cong \triangle LKJ$

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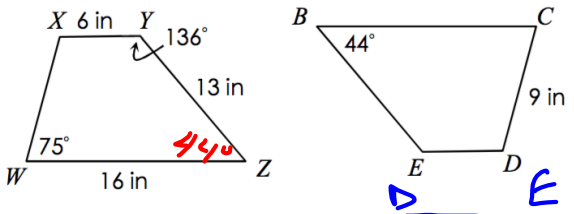
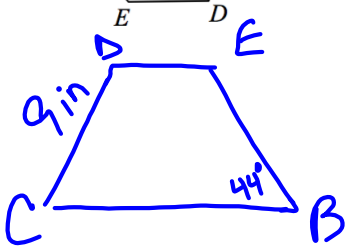
Determining Congruent Parts Measurements

trapezoid $WXYZ \cong$ trapezoid $CDEB$





$m\angle C =$ _____

$m\angle Z =$ _____

$m\angle X =$ _____

$WX =$ _____

$BC =$ _____

$BE =$ _____

Jan 28-8:08 PM