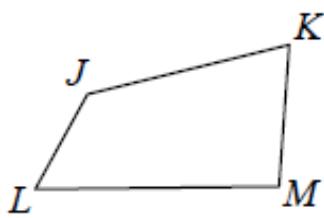
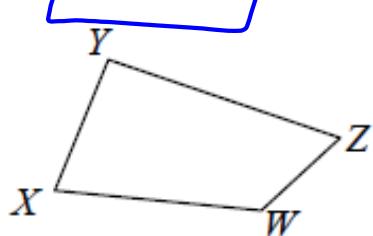


Do Now

$$\triangle WXYZ \cong \triangle JKLM$$



$$\angle W \cong \angle J$$

$$\overline{JK} \cong \overline{WX}$$

$$\angle X \cong \angle K$$

$$\overline{KL} \cong \overline{XY}$$

$$\angle Y \cong \angle L$$

$$\overline{LM} \cong \overline{YZ}$$

$$\angle Z \cong \angle M$$

$$\overline{JM} \cong \overline{WZ}$$

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Homework Answers

1) $\angle L \cong \angle Z$ $\overline{KL} \cong \overline{YZ}$
 $\angle Y \cong \angle K$ $\overline{XY} \cong \overline{JK}$
 $\angle J \cong \angle X$ $\overline{ZX} \cong \overline{LJ}$

5) Yes they are congruent

$$\Delta RST \cong \Delta CBA$$

2) $\angle G \cong \angle S$ $\overline{GD} \cong \overline{SP}$
 $\angle E \cong \angle Q$ $\overline{QR} \cong \overline{EF}$
 $\angle P \cong \angle D$ $\overline{DE} \cong \overline{PQ}$

6) Yes they are congruent

$$\Delta GEP \cong \Delta LJD$$

3) Yes they are congruent

$$\Delta FMJ \cong \Delta SUQ$$

4) Not congruent

7) $m\angle R = 47^\circ$ $\overline{ED} = 101$
 $m\angle C = 61^\circ$ $\overline{CR} = 13$
 $m\angle E = 61^\circ$ $\overline{DG} = 12$

8) $m\angle K = 56^\circ$ $\overline{ZW} = 22$
 $m\angle W = 56^\circ$ $\overline{MJ} = 15$
 $m\angle X = 124^\circ$ $\overline{YX} = 22$

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Geometric Transformations - Translations

Geometric Transformations

Reflections, Rotations and Translations

<http://www.youtube.com/watch?v=7h46hKwyahQ>

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Geometric Transformations - Translations

What is a Transformation?

moving a shape

Create congruent polygons

Translation, Reflection, Rotation
"slide" "flip" "spin"

What is a Translation?

Slide up / down

left / right

- Use a rule to

move & create a

Congruent polygon

(same size & same angles)

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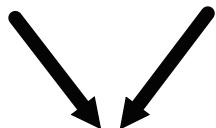
Translation Notation

Method 1

$T_{(3, -5)}$

Method 2

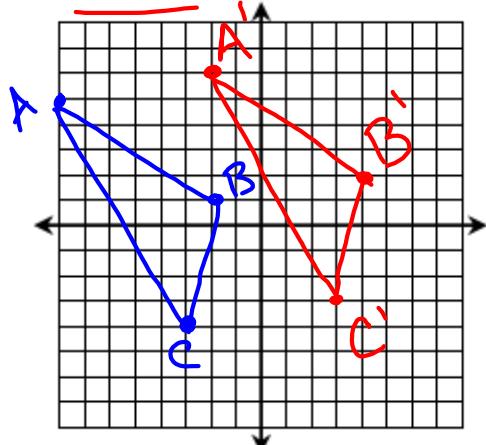
3 to the right and 5 down



Coordinate Notation
 $(x + 3, y - 5)$

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1. Triangle ABC with vertices $A(-8, 5)$, $B(-2, 1)$, and $C(-3, -4)$: translated one unit up and six units right



Coordinate Notation
 $(x, y) \rightarrow (x+6, y+1)$

$$A'(\underline{-2}, \underline{6})$$

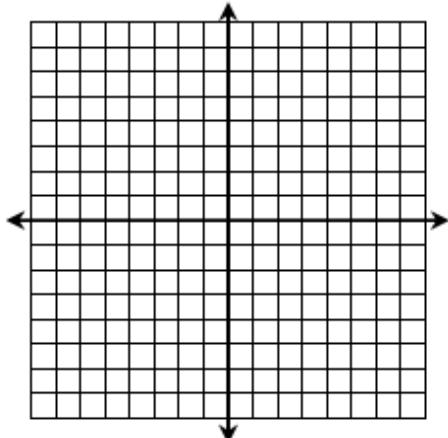
$$B'(\underline{4}, \underline{2})$$

$$C'(\underline{3}, \underline{-3})$$

$$\Delta ABC \cong \Delta A'B'C'$$

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2. Square $JKLM$ with vertices $J(0, -2)$, $K(4, -1)$, $L(5, -5)$, and $M(1, -6)$: translated eight units up and three units left



$$(x - 3, y + 8)$$

$$J'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$$

$$K'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$$

$$L'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$$

$$M'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$$

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