

Week 22: 1/25-1/29 Math I

Due: 2/1

Objectives:

1. To identify rigid motions.
2. To find translation images of figures.
3. To find reflection images of figures.
4. To draw and identify rotation images of figures.

Monday:

In Class:

Section 8-1: Notes in composition books

Start house transformation project: Translation section

Homework:

Complete Kuta Software Handout on Translations attached.

Tuesday:

In Class:

Section 8-2: Notes in composition books

House transformation project: Reflection section

Homework:

Complete Kuta Software Handout on Reflections attached.

Wednesday:

Catch up day on House Transformation project. You should be finished with the Translation and Reflection sections.

Thursday:

In Class:

Section 8-3: Notes in composition books

House transformations project: Rotation section

Homework:

Complete Kuta Software Handout on Rotations attached.

Friday:

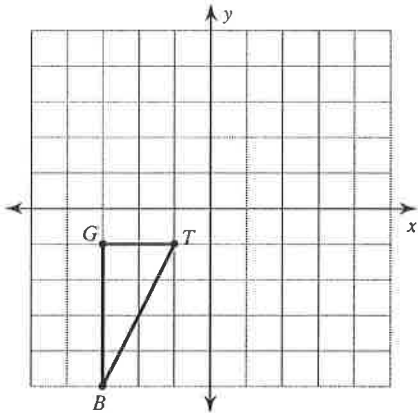
Finish House Transformations project. You will turn it in completed with this packet on Monday.

Monday 11/11

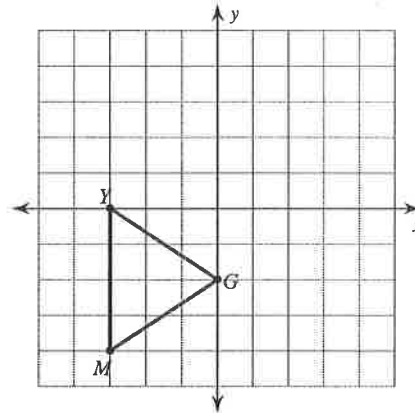
Translations

Graph the image of the figure using the transformation given.

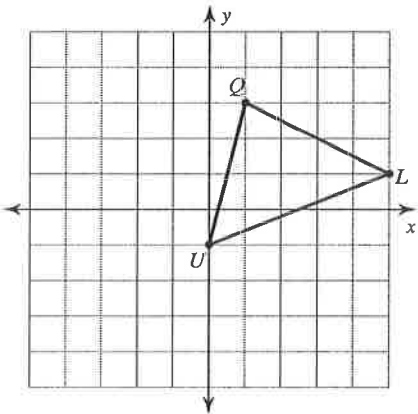
1) translation: 5 units right and 1 unit up



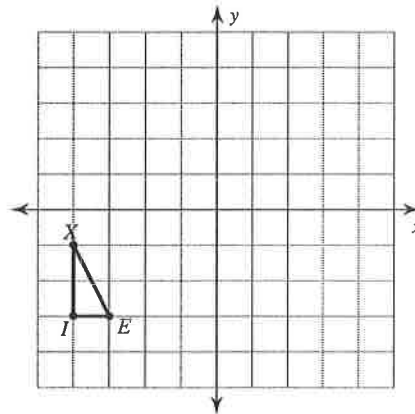
2) translation: 1 unit left and 2 units up



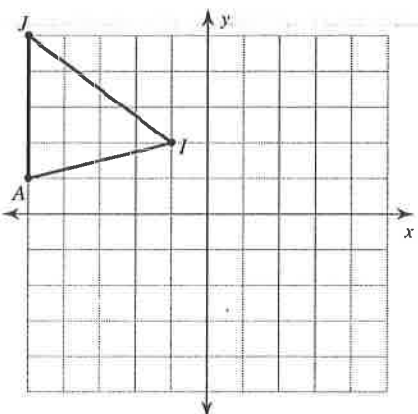
3) translation: 3 units down



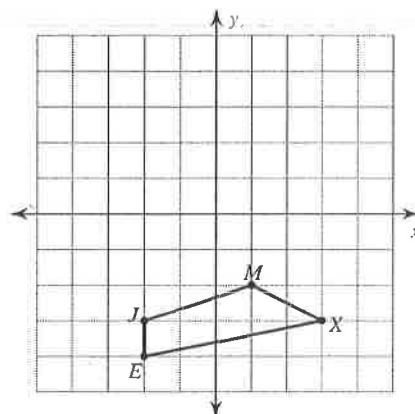
4) translation: 5 units right and 2 units up



5) translation: 4 units right and 4 units down



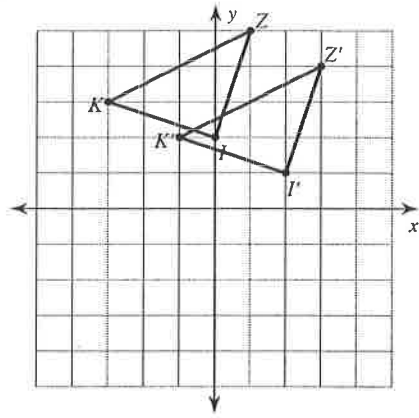
6) translation: 2 units right and 3 units up



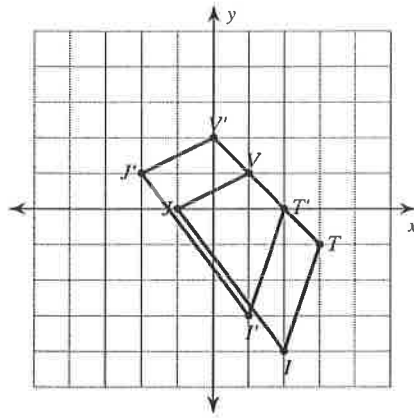
Monday HW

Write a rule to describe each transformation.

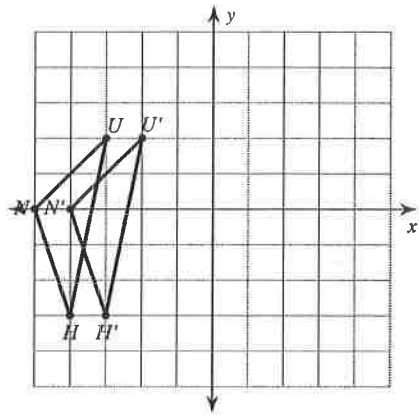
7)



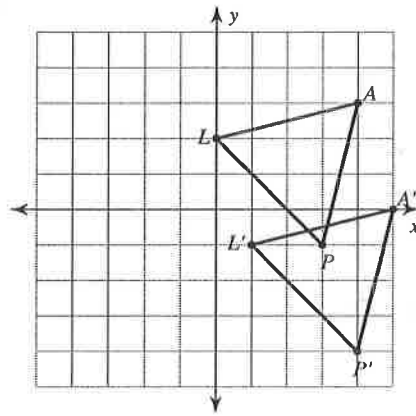
8)



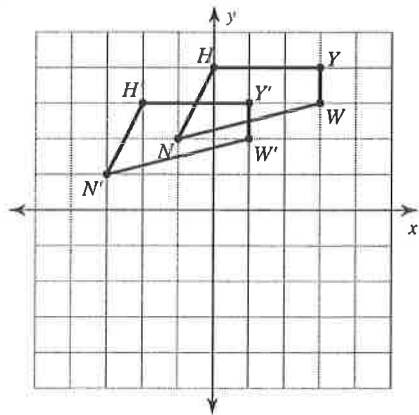
9)



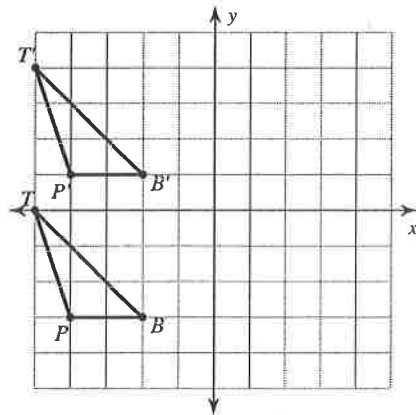
10)



11)



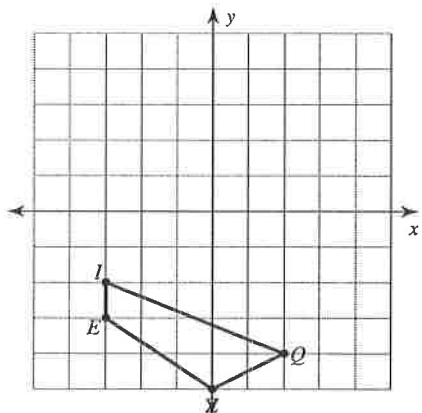
12)



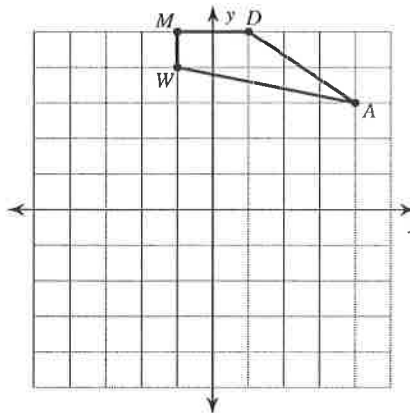
Reflections

Graph the image of the figure using the transformation given.

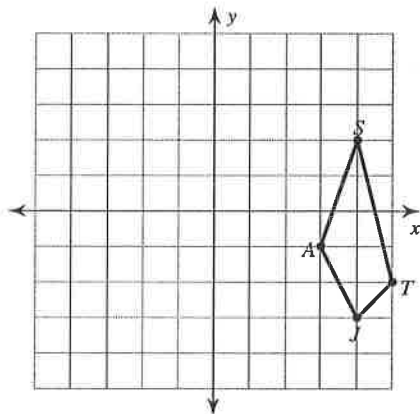
1) reflection across $y = -2$



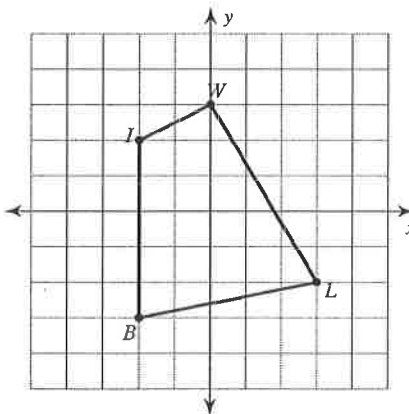
2) reflection across the x-axis



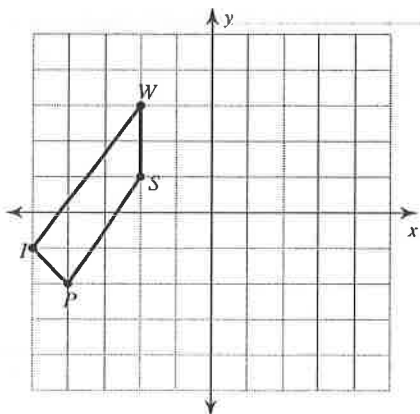
3) reflection across $y = -x$



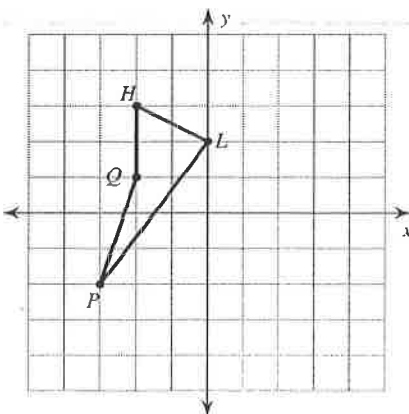
4) reflection across $y = -1$



5) reflection across $x = -3$



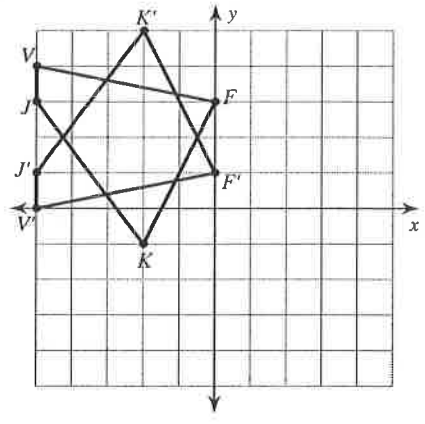
6) reflection across $y = x$



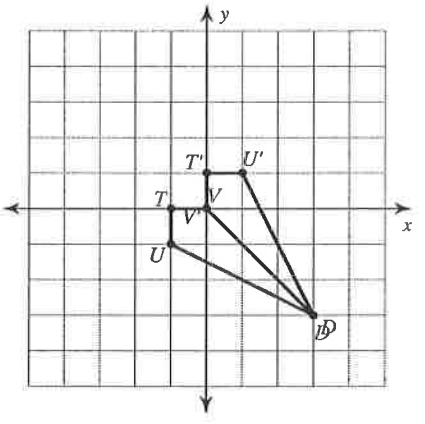
Tuesday HW

Write a rule to describe each transformation.

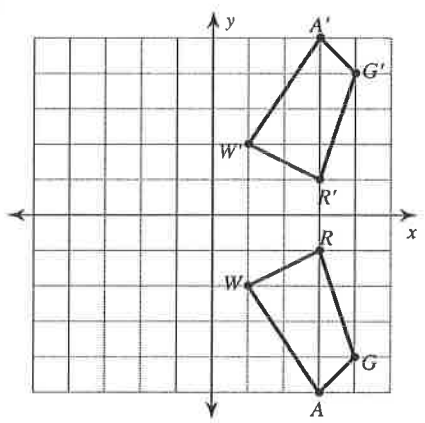
7)



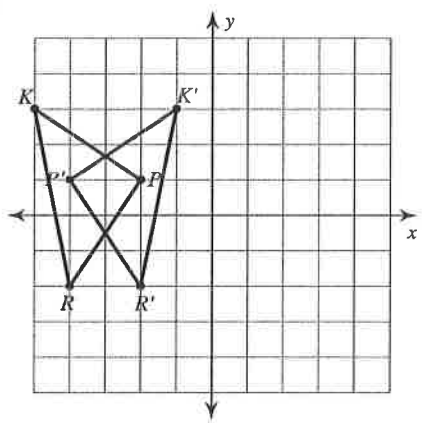
8)



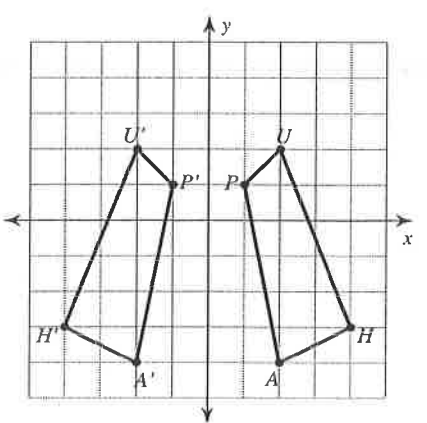
9)



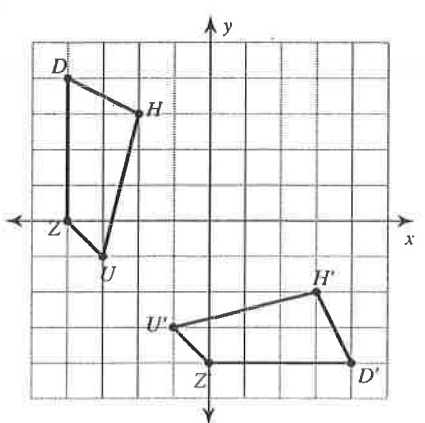
10)



11)



12)

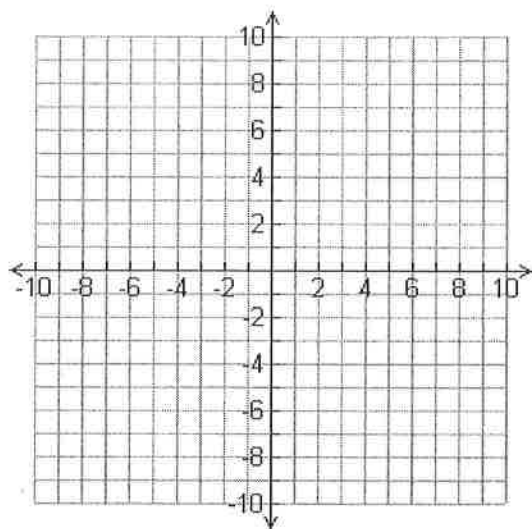


Thursday HW

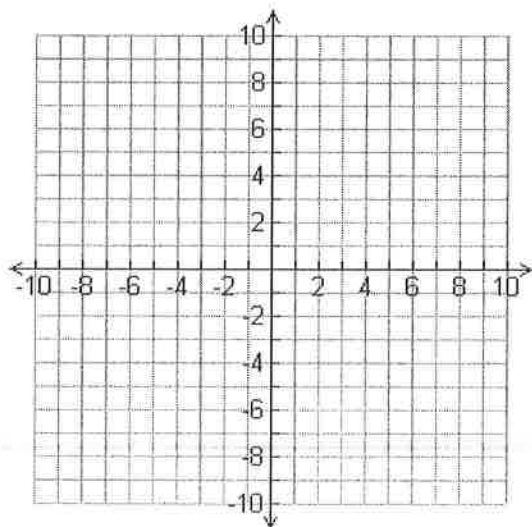
Rotations Homework

Graph each figure and its image after the specified rotation about the origin.

1. $\triangle JKL$ has vertices $J(2, 6)$, $K(5, 2)$, and $L(7, 5)$; 90°

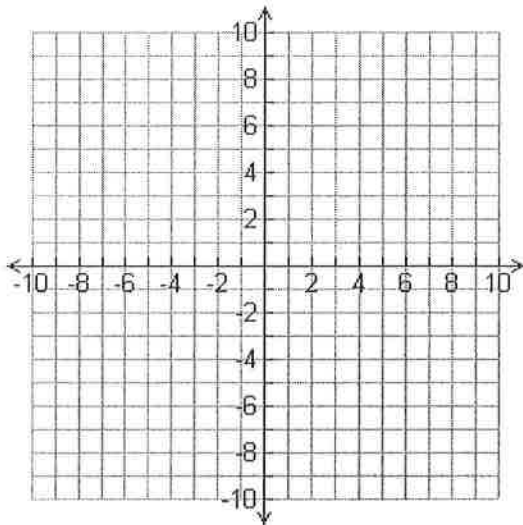


2. rhombus $WXYZ$ has vertices $W(-3, 4)$, $X(0, 7)$, $Y(3, 4)$, and $Z(0, 1)$; 90°

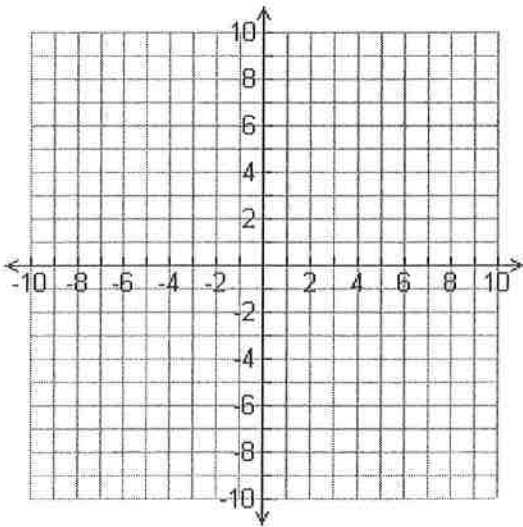


Thursday HW

3. $\triangle FGH$ has vertices $F(2, 4)$, $G(5, 6)$, and $H(7, 2)$; 180°

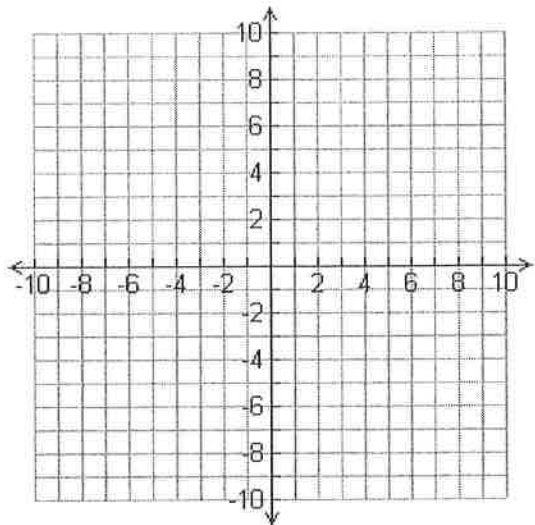


4. trapezoid $ABCD$ has vertices $A(-7, -2)$, $B(-6, -6)$, $C(-1, -1)$, and $D(-5, 0)$; 180°



Thursday HW

5. $\triangle RST$ has vertices $R(-6, -1)$, $S(-4, -5)$, and $T(-2, -1)$; 270°



6. parallelogram $MPQV$ has vertices $M(-6, 3)$, $P(-2, 3)$, $Q(-3, -2)$, and $V(-7, -2)$; 270°

