Warmup ${ }^{\text {Created by Alexandra Suchet }}$
$2 /\left(\frac{150}{150}+\left[\left(\sqrt{5}^{2}\right)-5+10-(8+2)\right]\right)$
***Get a ruler***

1. Write the equation of the line of symmetry.


## Quiz Friday

-Symmetry (Line Symmetry, Rotational Symmetry)

- Symmetry in the Coordinate Plane
- Sequences of Transformations
- Mapping Figures onto Each Other


Do pg. 892 (3-5)



Do Your Turn 2 and 3 on pg. 898
rourum
Use the definition of congruence to decide whether the two figures are congruent.
Explain your answer.
Explain your answer.


You can map $A B C D$ to $W x y$ with a
reflection acrosss the $x-$-xis, so the figure are congruent. The coordinate notation
for the reflection is $(x, y) \rightarrow(x,-y)$. for the reflection is $(x, y) \rightarrow(x,-y)$.
 reffection accosss the $y$-axis, followed by a
horizontal translation, so the figures 20 horizontal translation, so the figures are
congruent. The coordinate notation for congruent. The coordinate notation for
the erefection is $(x, y) \rightarrow(-x, y)$ and for
the trastation is $(x, y) \rightarrow(x-6, y)$.


## Read pg. 899 A and do B



Map $\triangle A B C$ to $\triangle P Q R$ with a rotation of $180^{\circ}$ around the origign, followed by horizontal translation.
Rotation: $(x, y) \rightarrow(-x,-y)$
Translation: $(x, y) \rightarrow(x+1, y)$
(B) $A B C D \cong J K L M$


Map ABCD to /KLM with a reflection across the $y$-axis
followed by a translation. Translation $(x, y) \rightarrow(-x, y)$

Do Your Turn on pg. 899 (5 and 6)

## Your Turn

The figures shown are congruent. Find a sequence of rigid motions that maps one
figure to the other. Give coordinate notation for the transformations you use.


## Homework

-pg. 901-902 (1-9)
-***Do not need coordinate notation for rotations or reflections***

