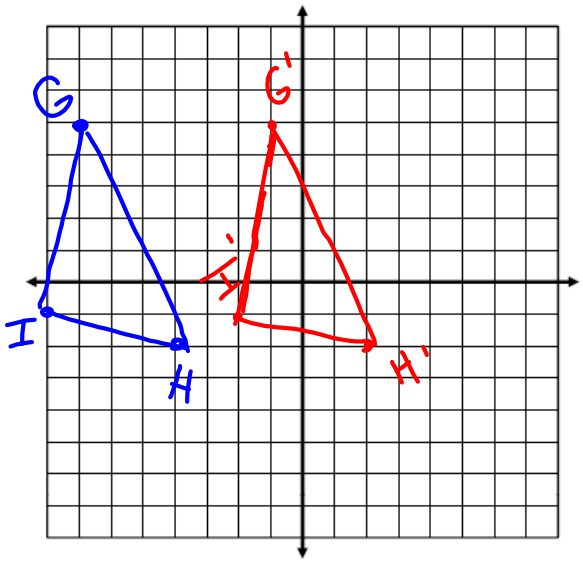
Do Now

Triangle GHI with vertices $G(-7, 5)$, $H(-4, -2)$, and $I(-8, -1)$: $(x, y) \rightarrow (x + 6, y)$



G' (-1, 5)

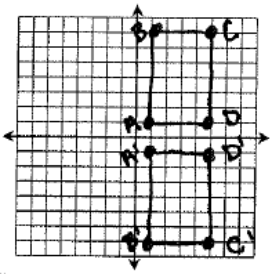
H' (2, -2)

I' (-2, -1)

Aug 30-12:01 PM

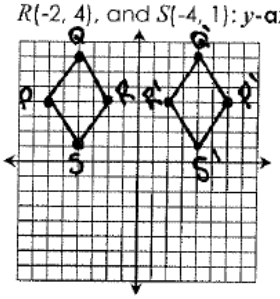
Homework Answers

1. Rectangle $ABCD$ with vertices $A(1, 1)$, $B(1, 7)$, $C(5, 7)$, and $D(5, 1)$: **x-axis**



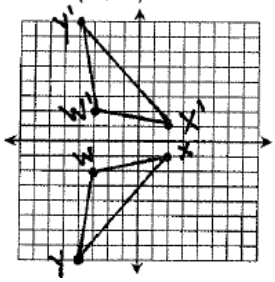
A' (1, -1)
B' (1, -7)
C' (5, -7)
D' (5, -1)

2. Rhombus $PQRS$ with vertices $P(-6, 4)$, $Q(-4, 7)$, $R(-2, 4)$, and $S(-4, 1)$: **y-axis**



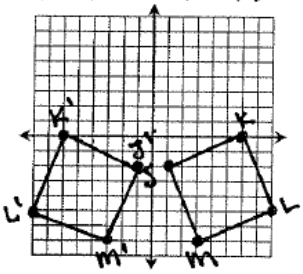
P' (6, 4)
Q' (4, 7)
R' (2, 4)
S' (4, 1)

3. Triangle WXY with vertices $W(-3, -2)$, $X(2, -1)$, and $Y(-4, -8)$: **x-axis**



W' (-3, 2)
X' (2, 1)
Y' (-4, 8)

4. Square $JKLM$ with vertices $J(1, -2)$, $K(6, 0)$, $L(8, -5)$, and $M(3, -7)$: **y-axis**



J' (-1, -2)
K' (-6, 0)
L' (-8, -5)
M' (-3, -7)

Feb 13-6:38 AM

Reflections Day 2

Writing image points from a pre-image point without graphing.

If point A(-7, 9) reflects over the x-axis, what are the coordinates of A'?

x-axis reflection

$(x,y) \to (x,-y)$

$A(-7,9) \to A'(-7,-9)$

If point B(-2, -3) reflects over the y-axis, what are the coordinates of B'?

y-axis reflection

$(x,y) \to (-x,y)$

$B(-2,-3) \to B'(2,-3)$

Aug 30-12:01 PM

Writing a reflection rule given a pre-image and image point.

1) W (-3, 7) → W'(3, 7)

reflection over y-axis

$(x,y) \to (-x,y)$

2) P (-5, -3) → P'(-5, 3)

reflection over x-axis

$(x,y) \to (x,-y)$

3) R (2, -3) → R'(-2, -3)

Reflection over y

$(x,y) \to (-x,y)$

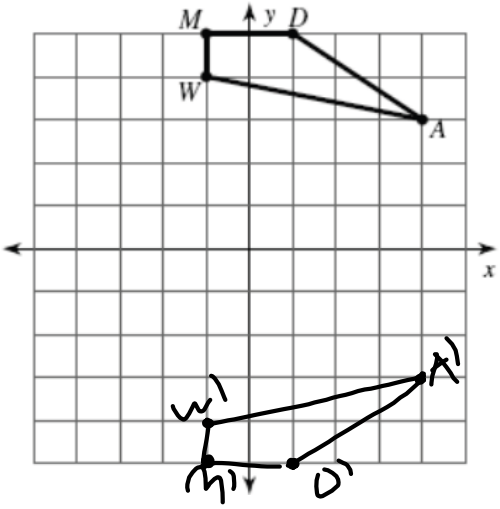
4) L (-3, -5) → L'(3, -5)

Reflection over y-axis

$(x,y) \to (-x,y)$

Feb 5-1:20 PM

1. Reflect over the x-axis



M' (-1 -5)
D' (2 -5)
W' (-1 -4)
A' (4, -3)

Aug 30-12:01 PM