

HW: pg. 306-308/4-13

x-axis

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

y-axis

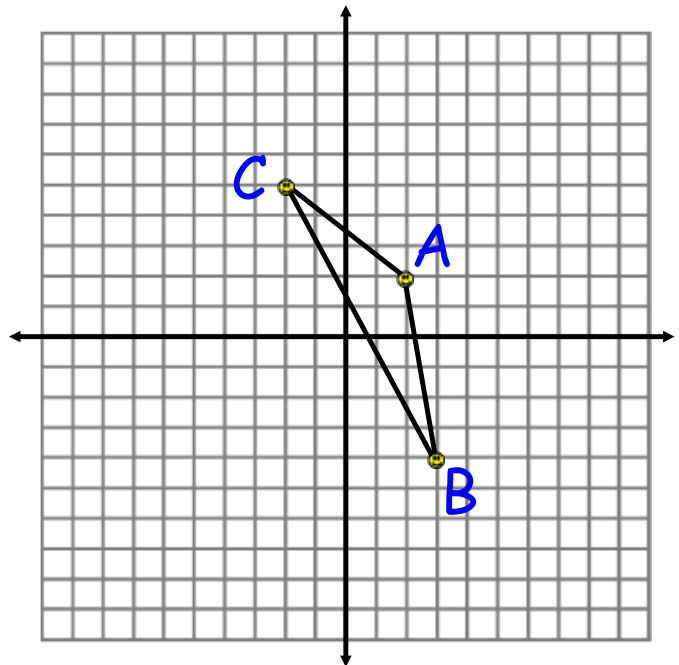
$$(x, y) \rightarrow (-x, y)$$

Reflect triangle ABC over the x-axis, y-axis, $y=2$, and $x = -1$.

$$A(2, 2)$$

$$B(3, -4)$$

$$C(-2, 5)$$



x - axis

$A(2, 2)$

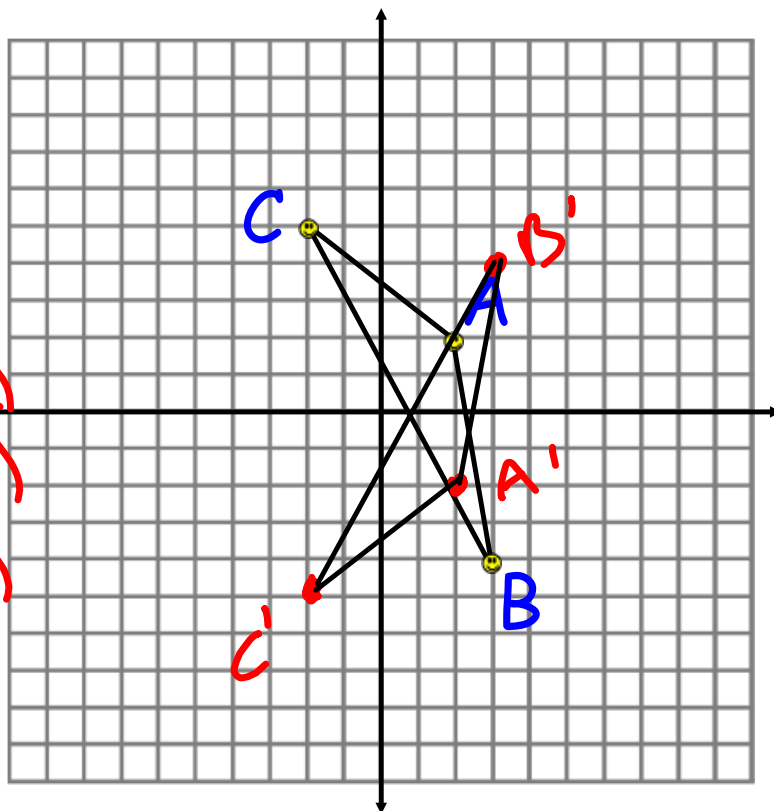
$B(3, -4)$

$C(-2, 5)$

$A'(2, -2)$

$B'(3, 4)$

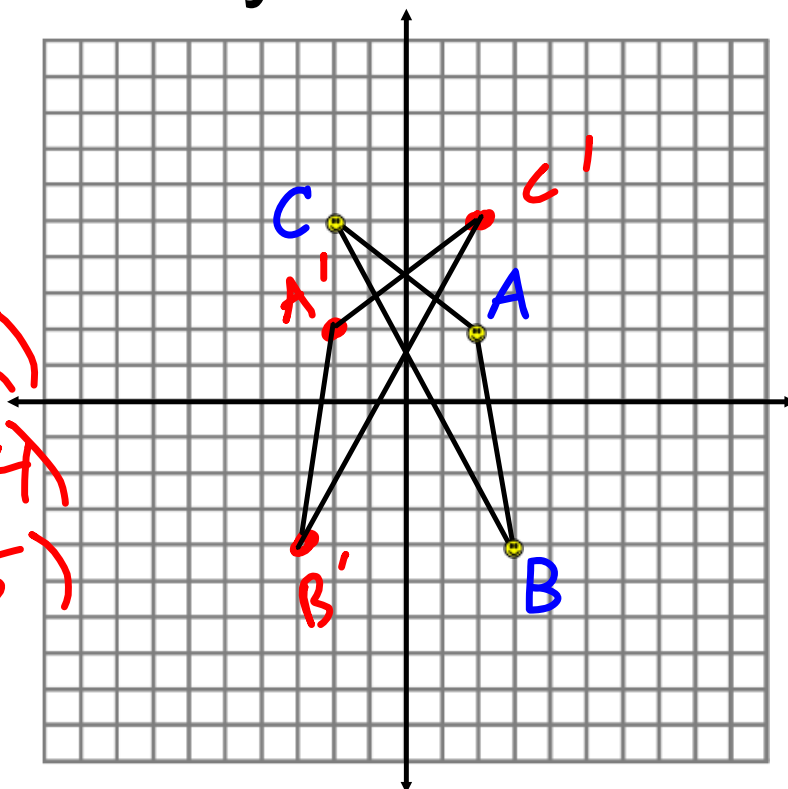
$C'(-2, -5)$

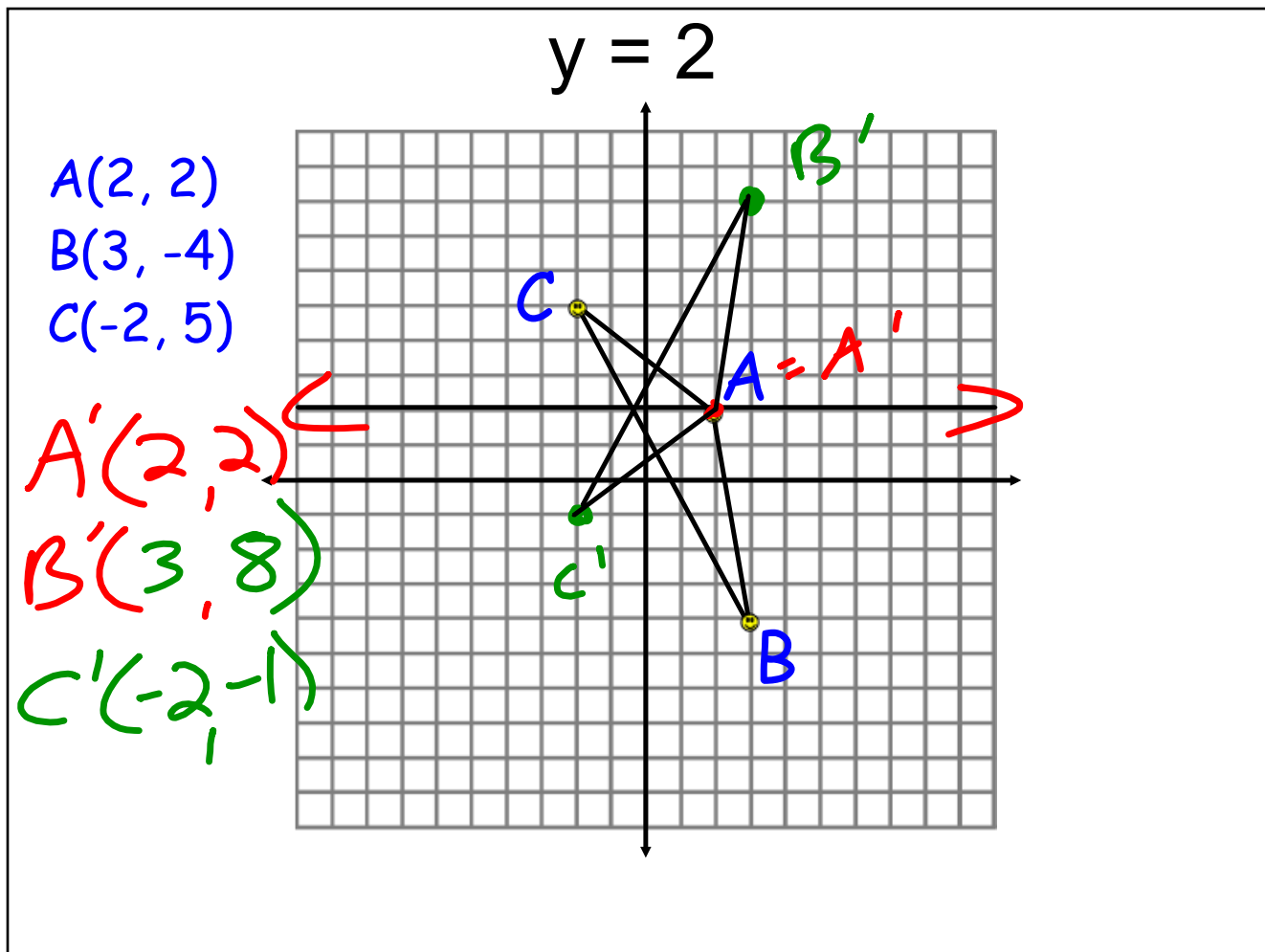


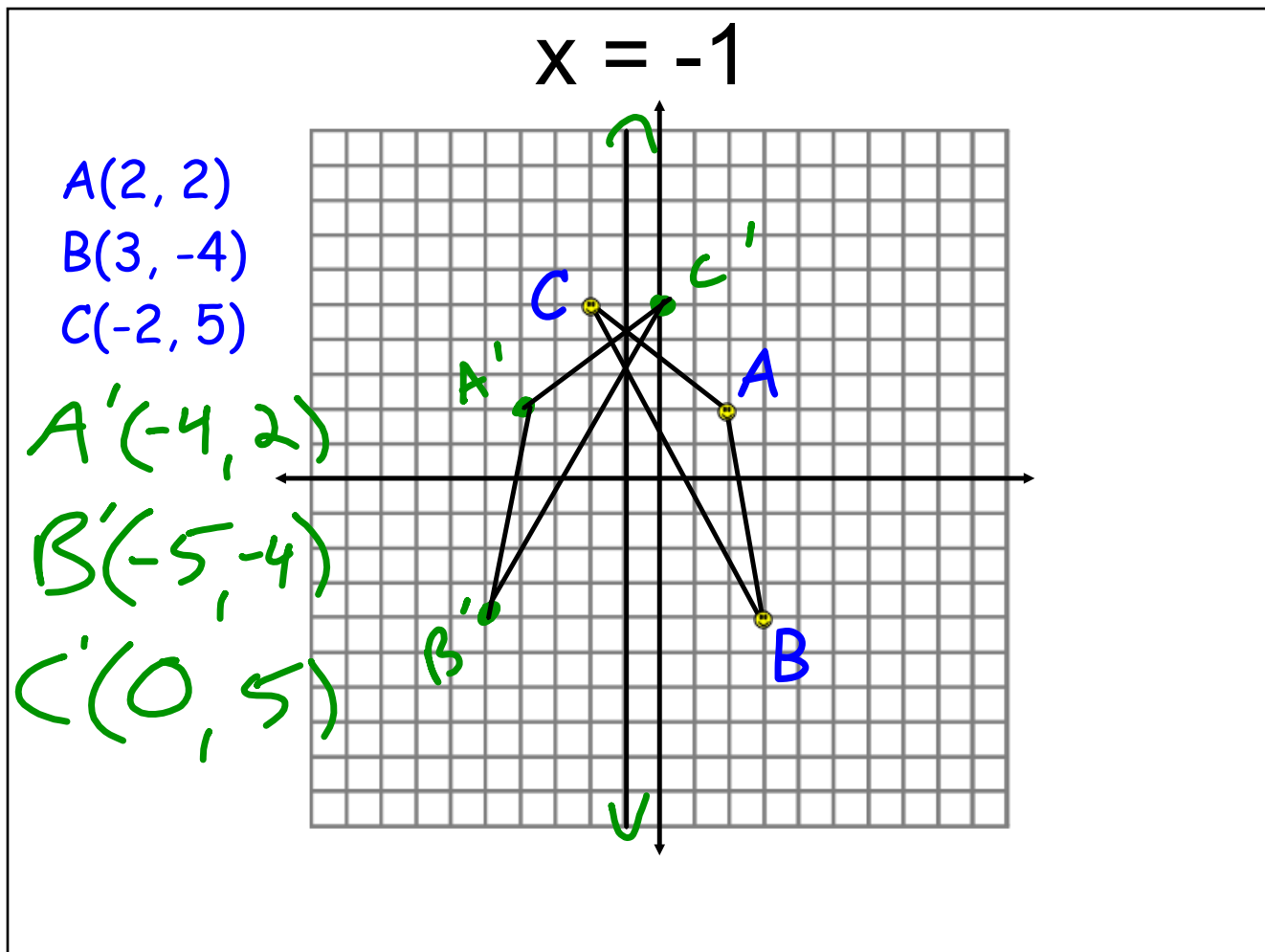
y - axis

$A(2, 2)$
 $B(3, -4)$
 $C(-2, 5)$

$A'(-2, 2)$
 $B'(-3, -4)$
 $C'(2, 5)$







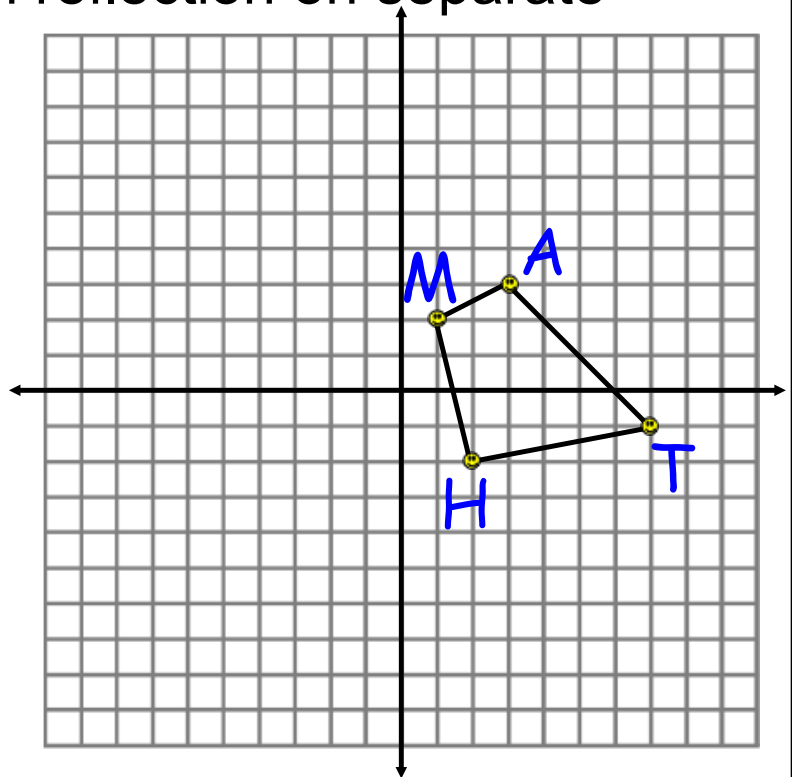
Reflect *MATH* over the x-axis, y-axis, $y = -3$, and $x = 1$. Perform each reflection on separate coordinate planes.

$$M(1, 2)$$

$$A(3, 3)$$

$$T(7, -1)$$

$$H(2, -2)$$



x - axis

M(1, 2)

A(3, 3)

T(7, -1)

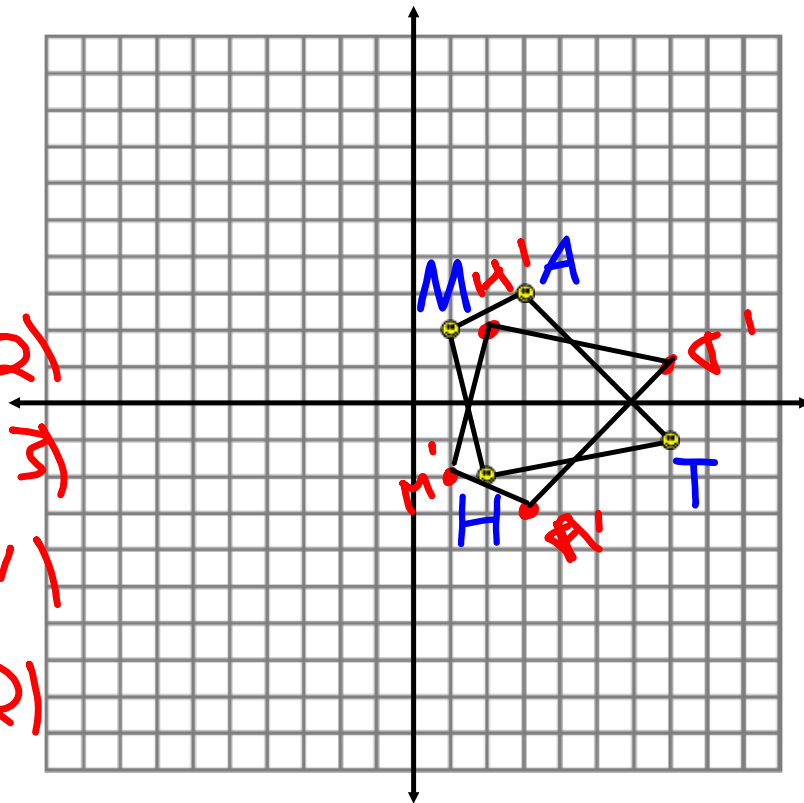
H(2, -2)

M'(1, -2)

A'(3, -3)

T'(7, 1)

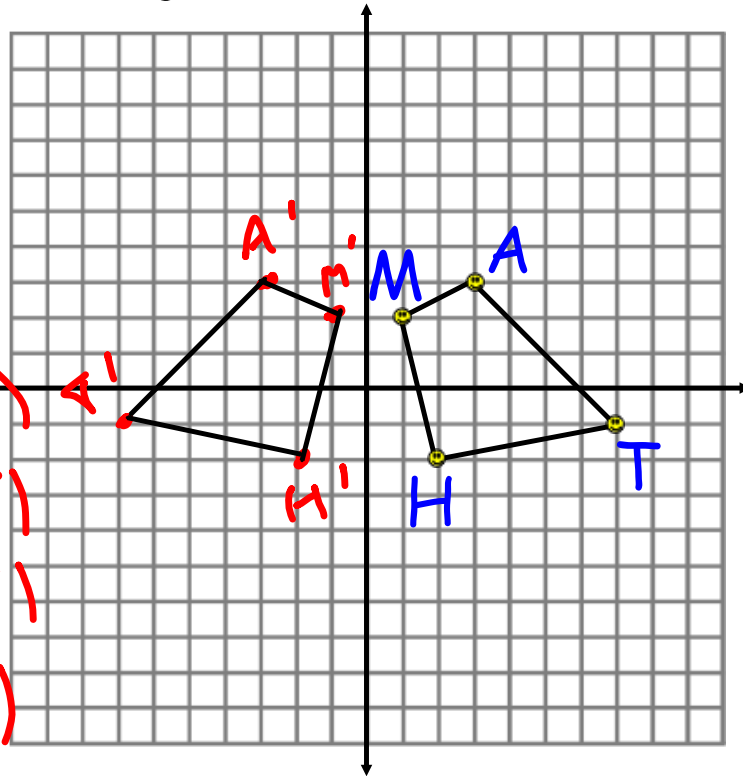
H'(2, 2)



y - axis

M(1, 2)
 A(3, 3)
 T(7, -1)
 H(2, -2)

M'(-1, 2)
 A'(-3, 3)
 T'(-5, -1)
 H'(-2, -2)



$$y = -3$$

$M(1, 2)$

$A(3, 3)$

$T(7, -1)$

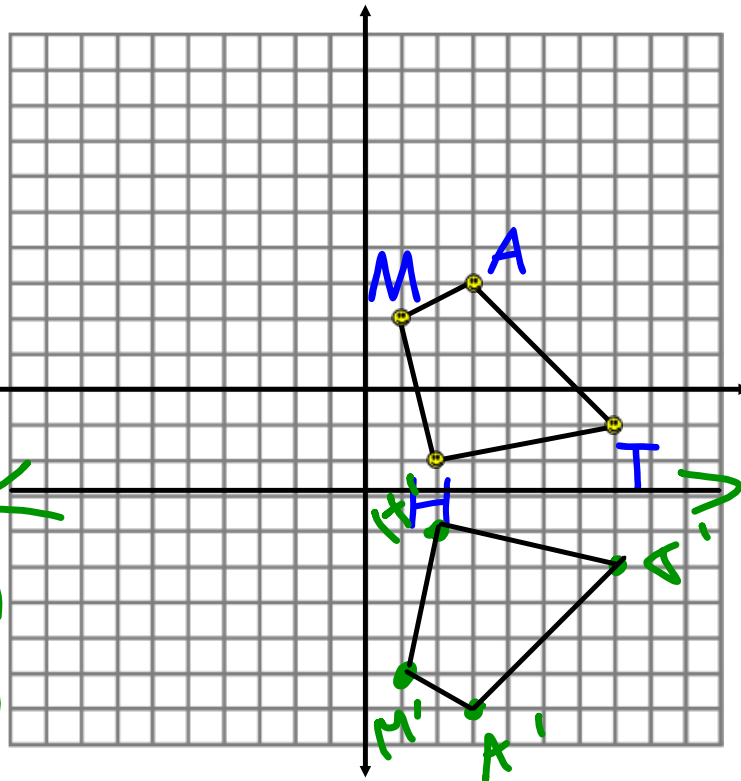
$H(2, -2)$

$M'(1, -8)$

$A'(3, -9)$

$T'(7, -5)$

$H'(2, -4)$



$$x = 1$$

$M(1, 2)$

$A(3, 3)$

$T(7, -1)$

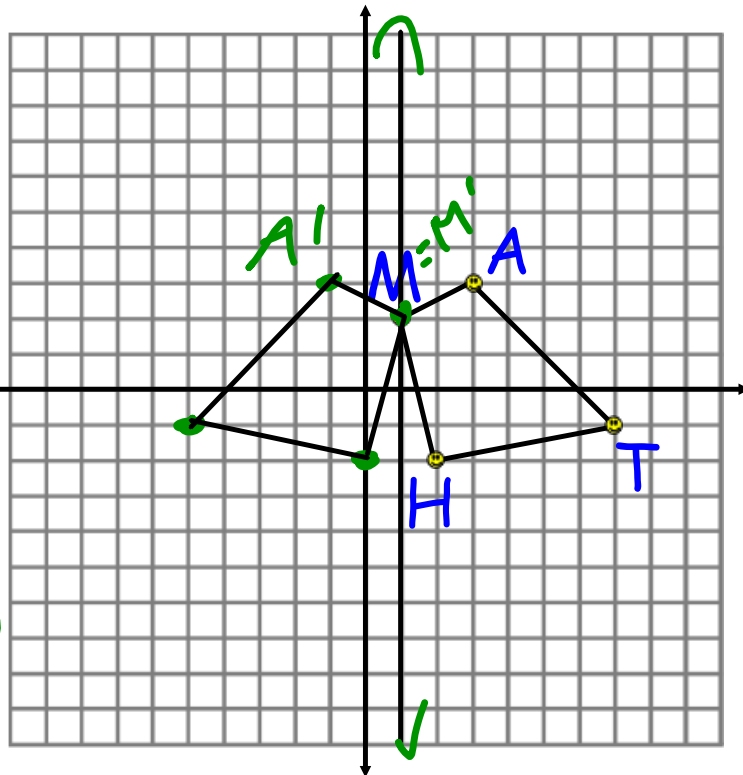
$H(2, -2)$

$M'(1, 2)$

$A'(-1, 3)$

$T'(-5, -1)$

$H'(0, -2)$



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