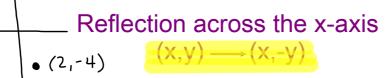
DO NOW

The coordinates of the vertices of $\triangle ABC$ are A(1,2), B(-4,3), and C(-3,-5). State the coordinates of $\triangle A'B'C'$, the image of $\triangle ABC$ after a rotation of 90° about the origin.

$$R_{90}$$
: $(x,y) \rightarrow (-4,x)$
 $A'(-2,1)$
 $B'(-3,-4)$
 $C'(5,-3)$

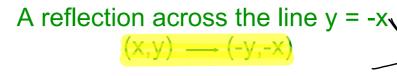
Nov 15-10:14 AM

A <u>line reflection</u> "flips" every point of a

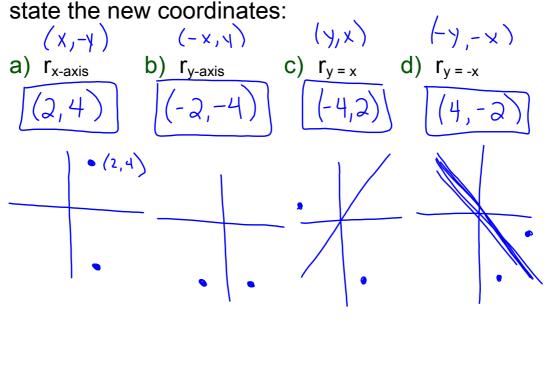


Reflection across the y-axis $(x,y) \longrightarrow (-x,y)$

A reflection across the line y = |x| $(x,y) \longrightarrow (y,x)$

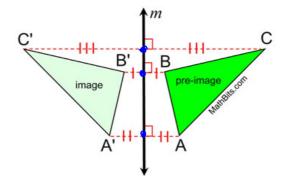


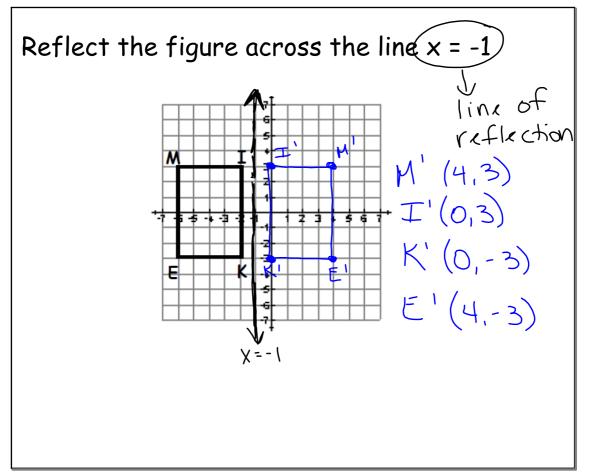
Reflect the point (2,-4) over the given lines and state the new coordinates:



Nov 15-10:17 AM

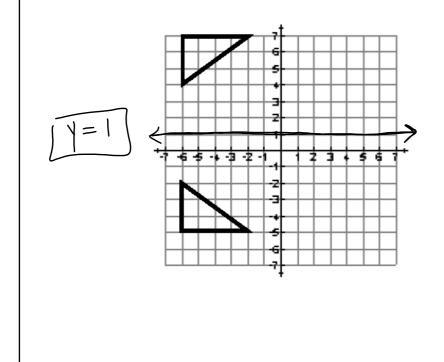
The <u>reflection line</u>, *m*, is the <u>perpendicular bisector</u> of the segments joining each point to its image.





Oct 10-8:37 AM

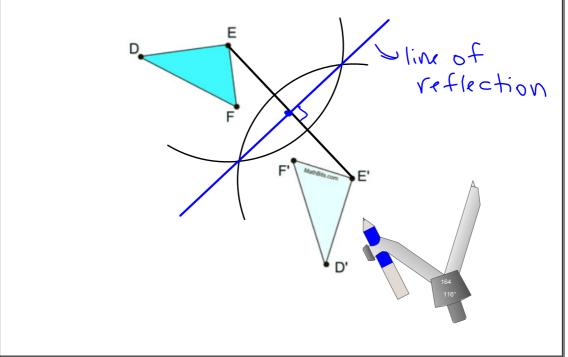
Draw and name the line of reflection for the figure.



Given a figure and its reflection, construct the line of reflection

Connect any vertex of $\triangle DEF$ to its image (E to E').

Construct the perpendicular bisector of the segment formed.



Oct 19-1:02 PM

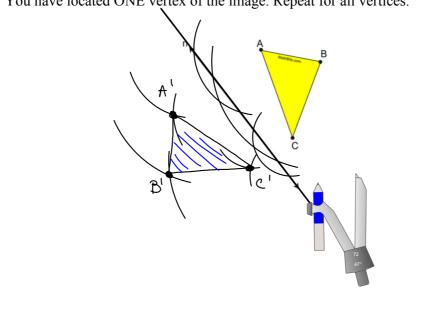
Given a figure and line of reflection, construct the reflected image

Construct a perpendicular from A to the line of reflection.

Measure the length from A to the intersection point.

Copy this length on the perpendicular bisector starting at the intersection point to find A'.

You have located ONE vertex of the image. Repeat for all vertices.



Oct 19-1:03 PM