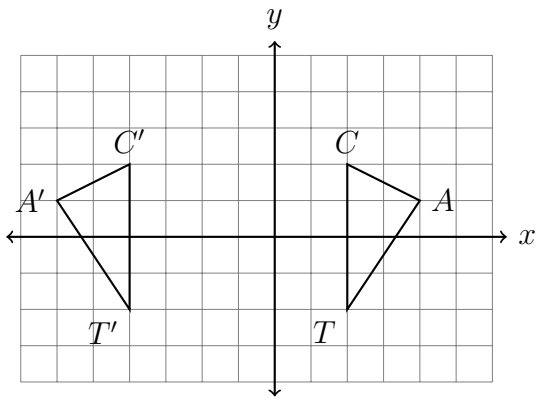
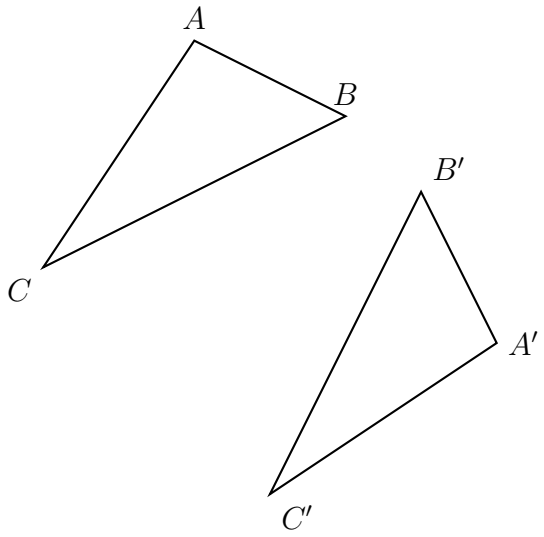
9.4 Do Now: Reflection across a line not an axis

1. Which of the following would map $\triangle CAT \to \triangle C'A'T'$?

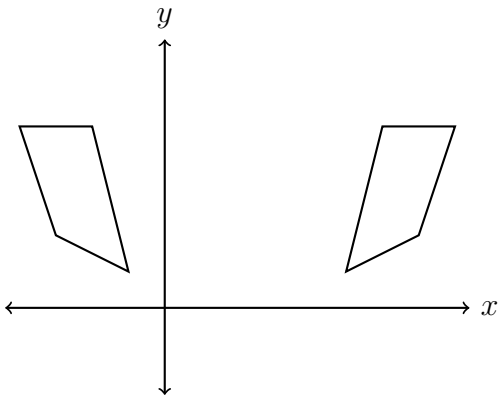
T	F	Reflected across the y-axis
T	F	Translated six to the left, down zero
T	F	Reflected across the y-axis, then slid to the left two
T	F	$(x, y) \to (x - 6, y + 0)$
T	F	Rotated 90° counterclockwise around the origin
T	F	Reflected across the line $x = -1$

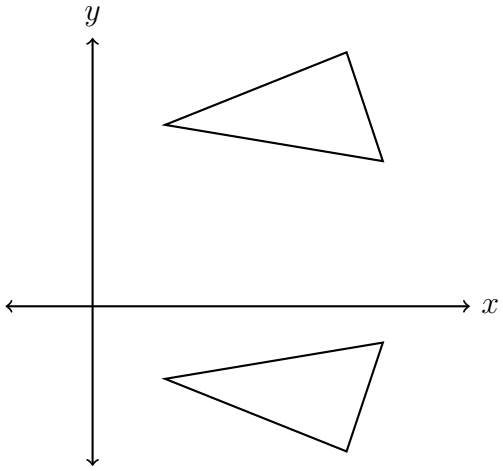


2. Draw the line of reflection used to map $\triangle ABC$ onto $\triangle A'B'C'$.

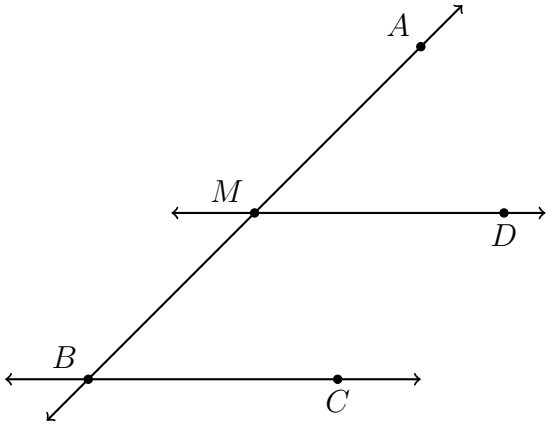


3. Draw the line of reflection for each diagram below.





4. Given two parallel lines are intersected by a transversal, $\overleftrightarrow{MD} || \overleftrightarrow{BC}$. $m\angle AMD = 4x+5$ and $m\angle MBC = 5x - 7$. Find $m\angle AMD$.



5. In the diagram above, the point M bisects $\overline{AB}$. If $AM = 4$ find AB.

6. Given two vertical angles, $m\angle 1 = 5x + 9$, $m\angle 2 = 6x - 1$. Find $m\angle 1$.
For full credit, check by comparing to $m\angle 2$.