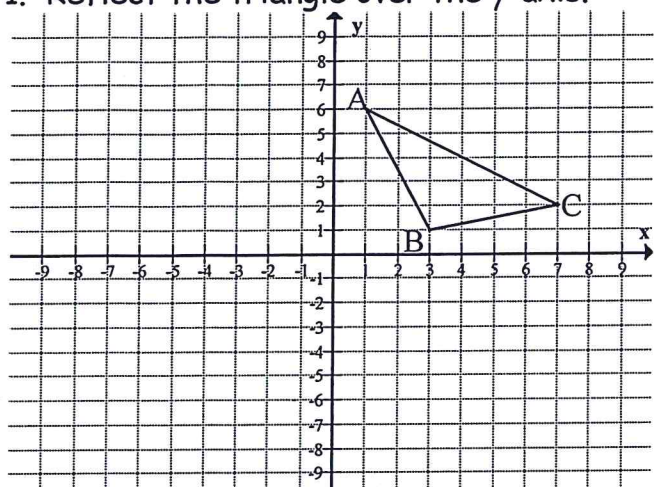


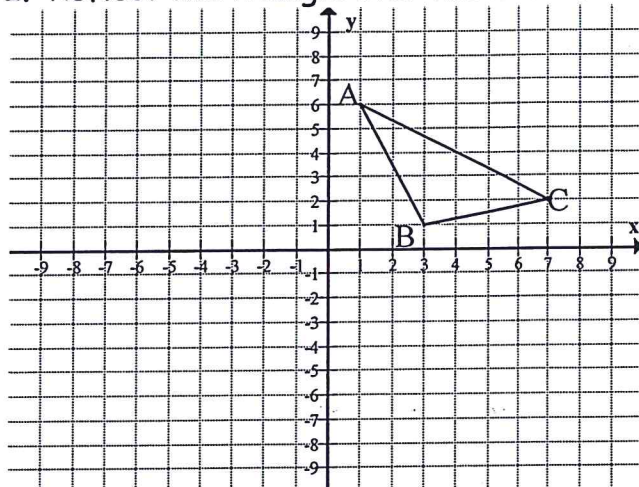
Reflections Worksheet

For #1-6, draw the triangle after each transformation.

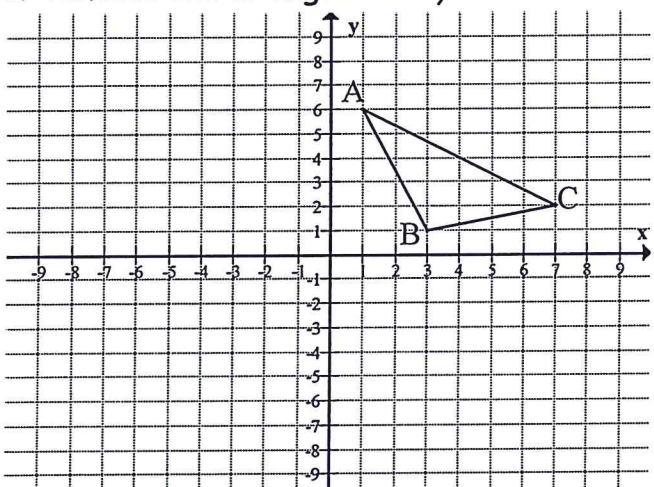
1. Reflect the triangle over the y-axis.



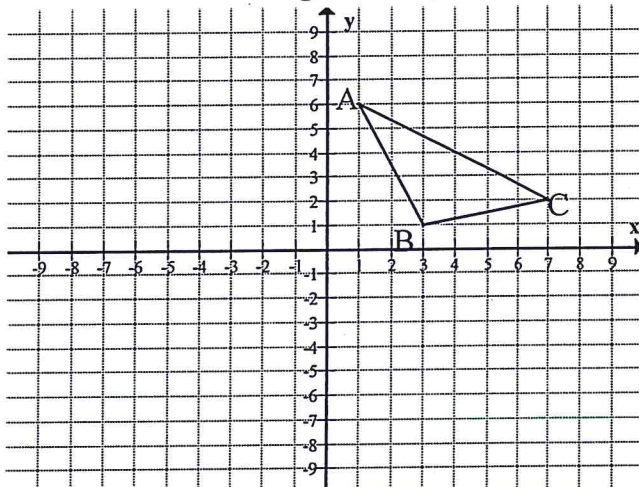
2. Reflect the triangle over the x-axis.



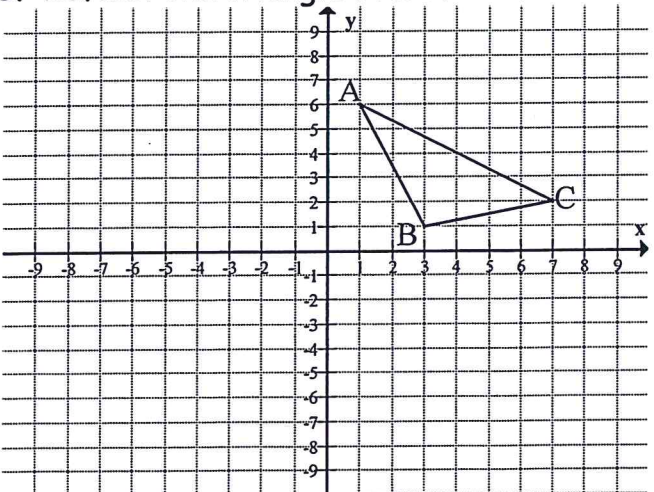
3. Reflect the triangle over $y = x$.



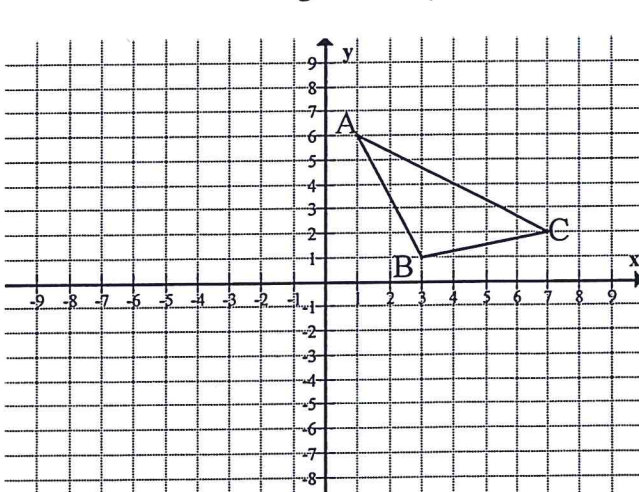
4. Reflect the triangle over $y = -x$.



5. Reflect the triangle over $x = -2$.



6. Reflect the triangle over $y = -2$.



Complete.

7. After a reflection over the x-axis, $(8, 11)$ is the image of point C. What is the original (pre-image) location of point C?
8. After a reflection over the y-axis, $(0, 4)$ is the image of point L. What is the original location (pre-image) of point L?
9. The reflection of $J(-1, 11)$ is $J'(-1, -11)$. What is the reflection of $D(5, -5)$ if the point is reflected across the same line?
What is the line of reflection?
10. The reflection of $K(-2, 8)$ is $K'(8, -2)$. What is the reflection of $L(10, -3)$ if the point is reflected across the same line?
What is the line of reflection?
11. Given triangle JBN with coordinates $J(4, 5)$, $B(-1, -7)$, and $N(-7, 8)$, find the image of point B after a reflection over the line $y = x$.
12. After a reflection over the x-axis, $(5, 10)$ is the image of point N. What is the original location (pre-image) of point N?
13. Given triangle ONA with coordinates $O(-4, 1)$, $N(11, -12)$ and $A(-7, -9)$, find the image of point O after a reflection over the x-axis.
14. Given triangle UCJ with coordinates $U(-12, 7)$, $C(4, 2)$, and $J(-3, 9)$, find the image of point C after a reflection over the y-axis.
15. The reflection of $H(-10, -11)$ is $H'(10, -11)$. What is the reflection of $N(8, 10)$, if the point is reflected across the same line?
What is the line of reflection?