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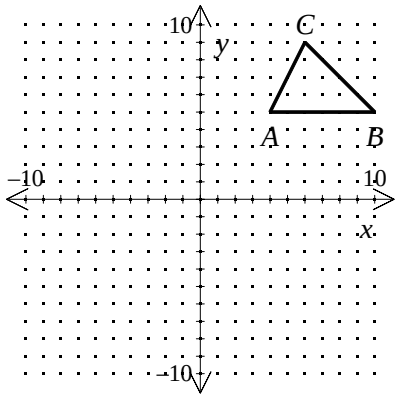
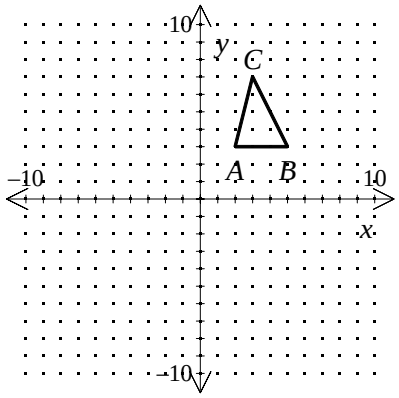
NOTE: The following problems incorrectly refer to compositions of transformations as glide reflections. These compositions are not glide reflections as the transalations are not through a vector parallel to the line of reflection.

P.I. G.G.54: Define, investigate, justify, and apply isometries in the plane (rotations, reflections, translations)

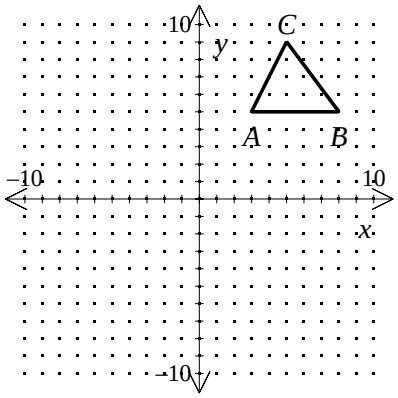
1. Find the image of ΔABC under the glide reflection $\langle -2, -3 \rangle$ and $y = -1$.



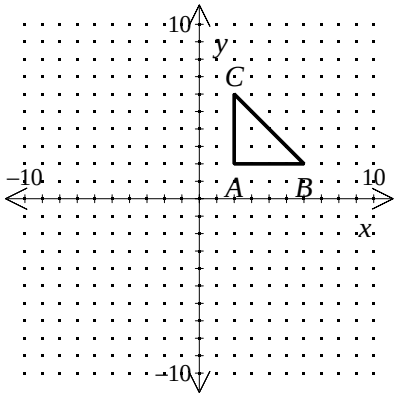
2. Find the image of ΔABC under the glide reflection $\langle 1, -3 \rangle$ and $y = -1$.



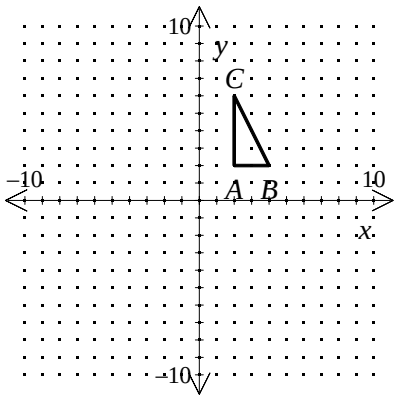
3. Find the image of ΔABC under the glide reflection $\langle 2, -3 \rangle$ and $y = -1$.



4. Find the image of ΔABC under the glide reflection $\langle -1, 3 \rangle$ and $y = 1$.



5. Find the image of ΔABC under the glide reflection $\langle 2, -1 \rangle$ and $y = -1$.



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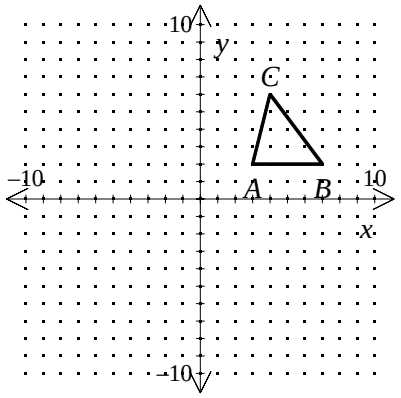
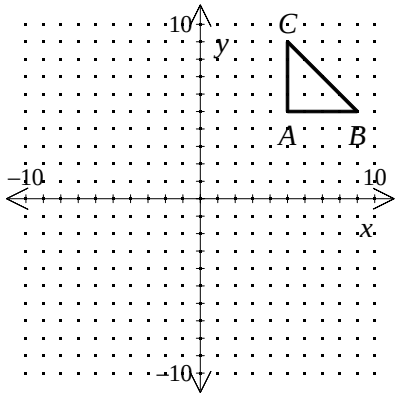
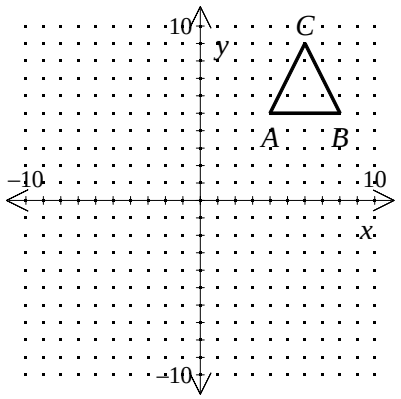
6. Find the image of ΔABC under the glide reflection $\langle -1, -2 \rangle$ and $y = -2$.



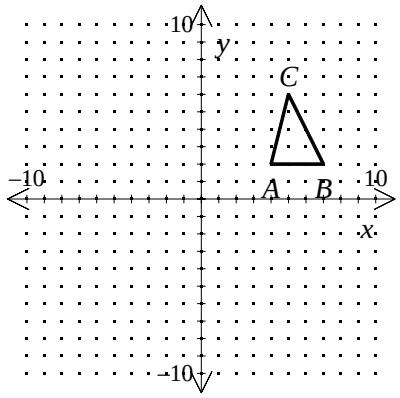
7. Find the image of ΔABC under the glide reflection $\langle 3, -2 \rangle$ and $x = 3$.



8. Find the image of ΔABC under the glide reflection $\langle -1, -3 \rangle$ and $x = 2$.



9. Find the image of ΔABC under the glide reflection $\langle -3, 2 \rangle$ and $y = 1$.



10. Find the image of ΔABC under the glide reflection $\langle 2, 1 \rangle$ and $x = 1$.