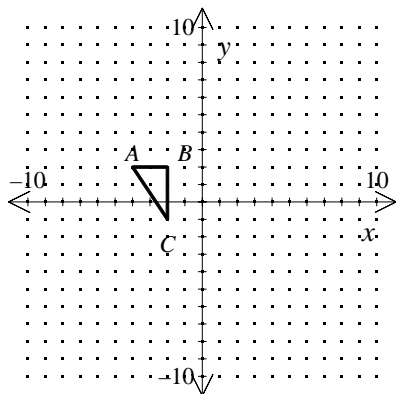


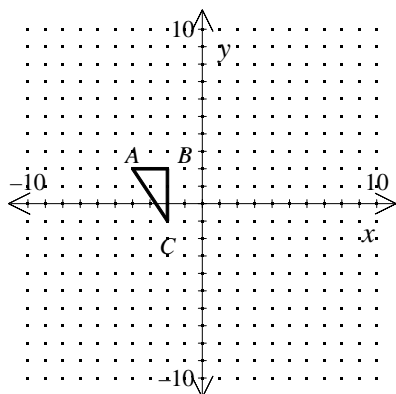
NAME: _____

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

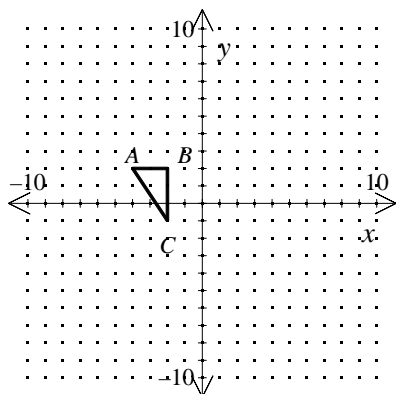
1. Draw the image produced when $\triangle ABC$ is translated $\langle 8, 1 \rangle$.



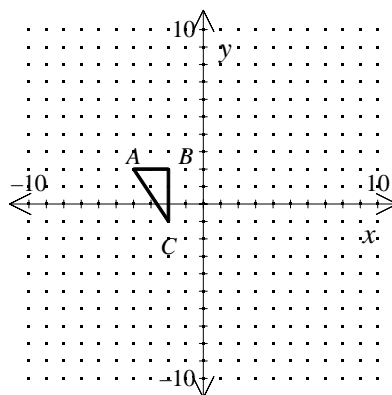
2. Draw the image produced when $\triangle ABC$ is translated $\langle -1, -4 \rangle$.



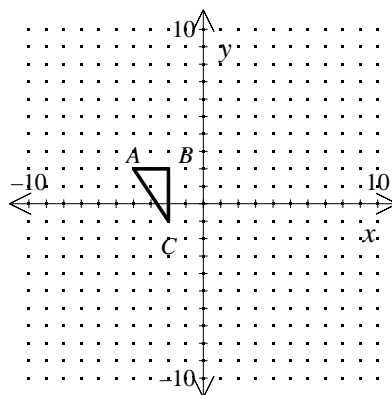
3. Draw the image produced when $\triangle ABC$ is translated $\langle 5, -5 \rangle$.



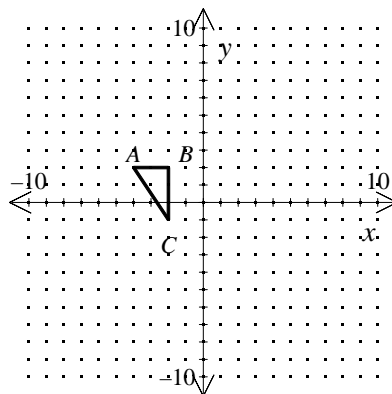
4. Draw the image produced when $\triangle ABC$ is translated $\langle 3, 4 \rangle$.



5. Draw the image produced when $\triangle ABC$ is translated $\langle 5, 6 \rangle$.

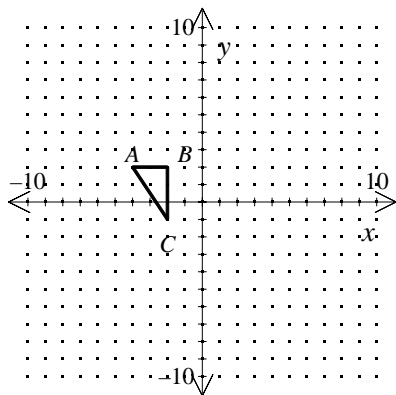


6. Draw the image produced when $\triangle ABC$ is translated $\langle 6, 3 \rangle$.

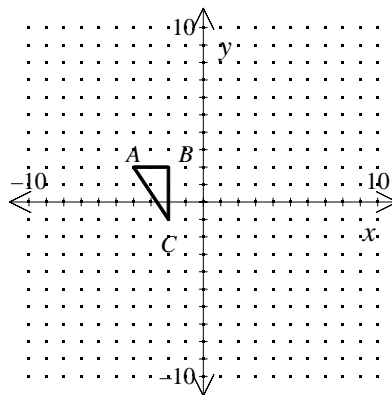


NAME: _____

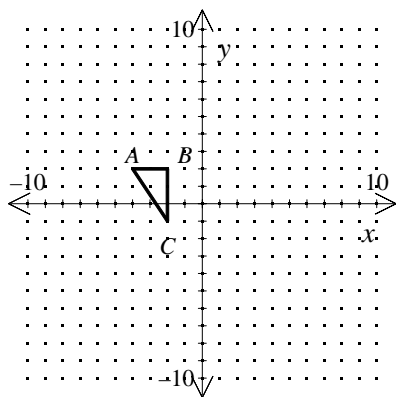
7. Draw the image produced when $\triangle ABC$ is translated $\langle 10, 7 \rangle$.



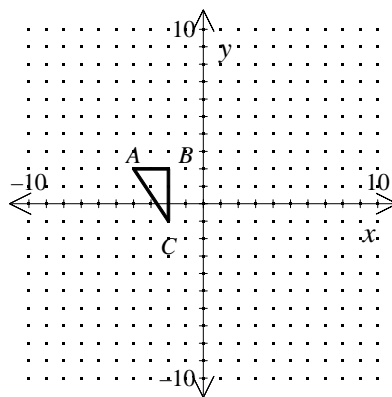
10. Draw the image produced when $\triangle ABC$ is translated $\langle 4, 2 \rangle$.



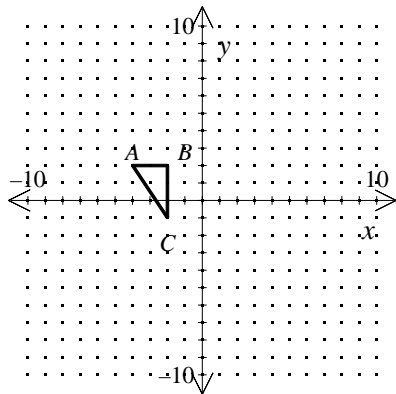
8. Draw the image produced when $\triangle ABC$ is translated $\langle -3, 5 \rangle$.



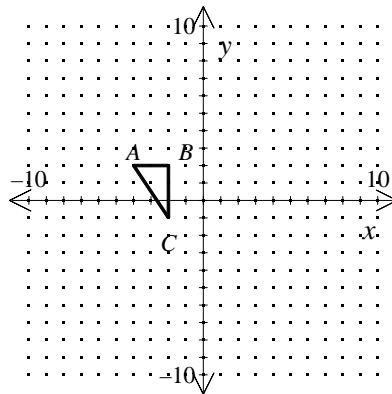
11. Draw the image produced when $\triangle ABC$ is translated $\langle 4, -2 \rangle$.

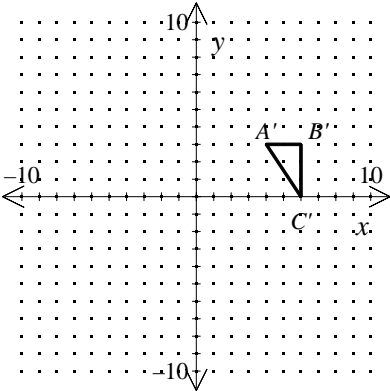


9. Draw the image produced when $\triangle ABC$ is translated $\langle 7, -1 \rangle$.

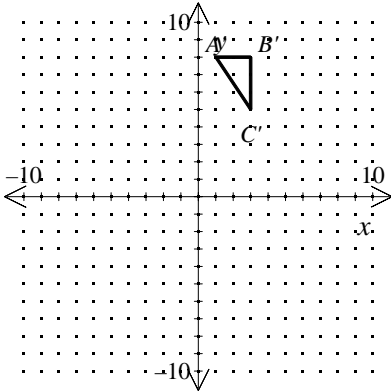


12. Draw the image produced when $\triangle ABC$ is translated $\langle -4, -4 \rangle$.

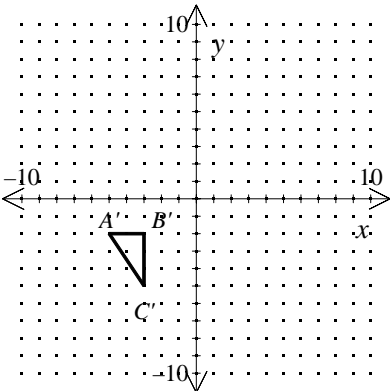




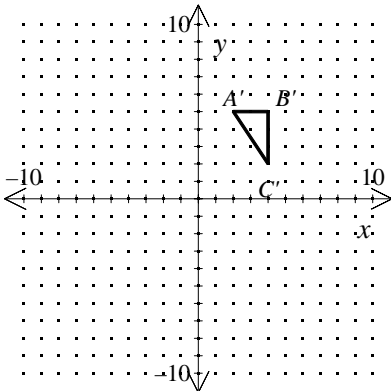
[1]



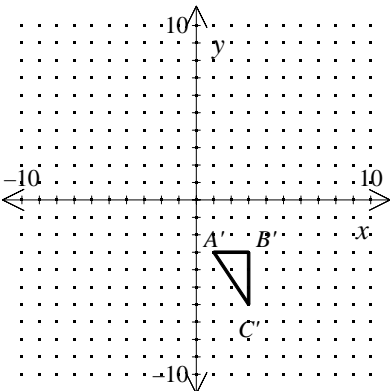
[5]



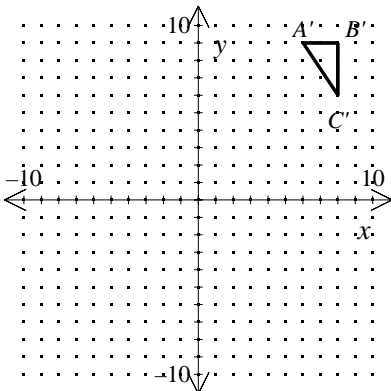
[2]



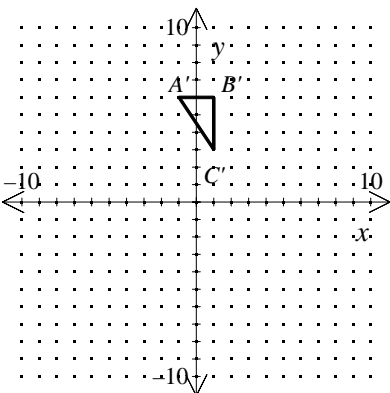
[6]



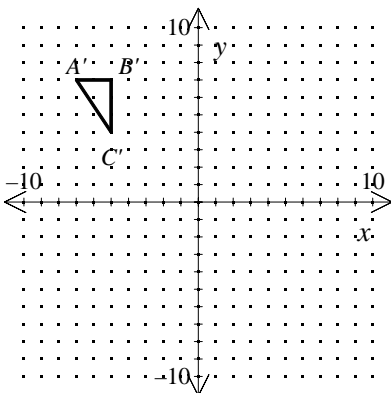
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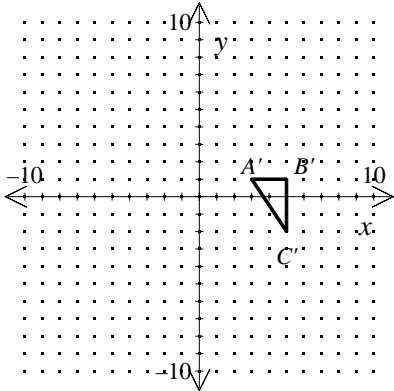
[7]



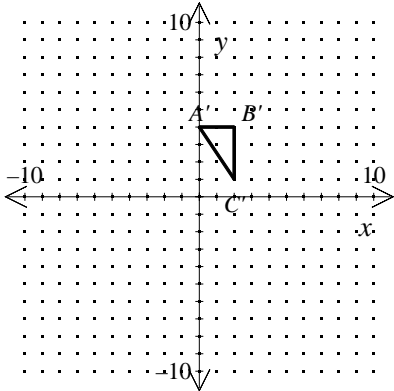
[4]



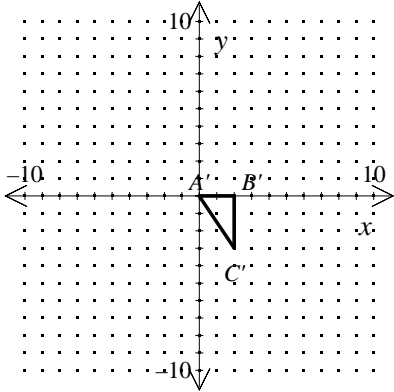
[8]



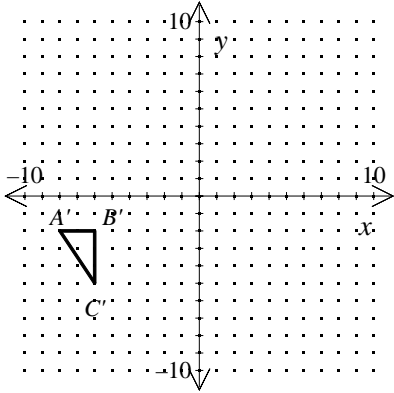
[9]



[10]



[11]



[12]