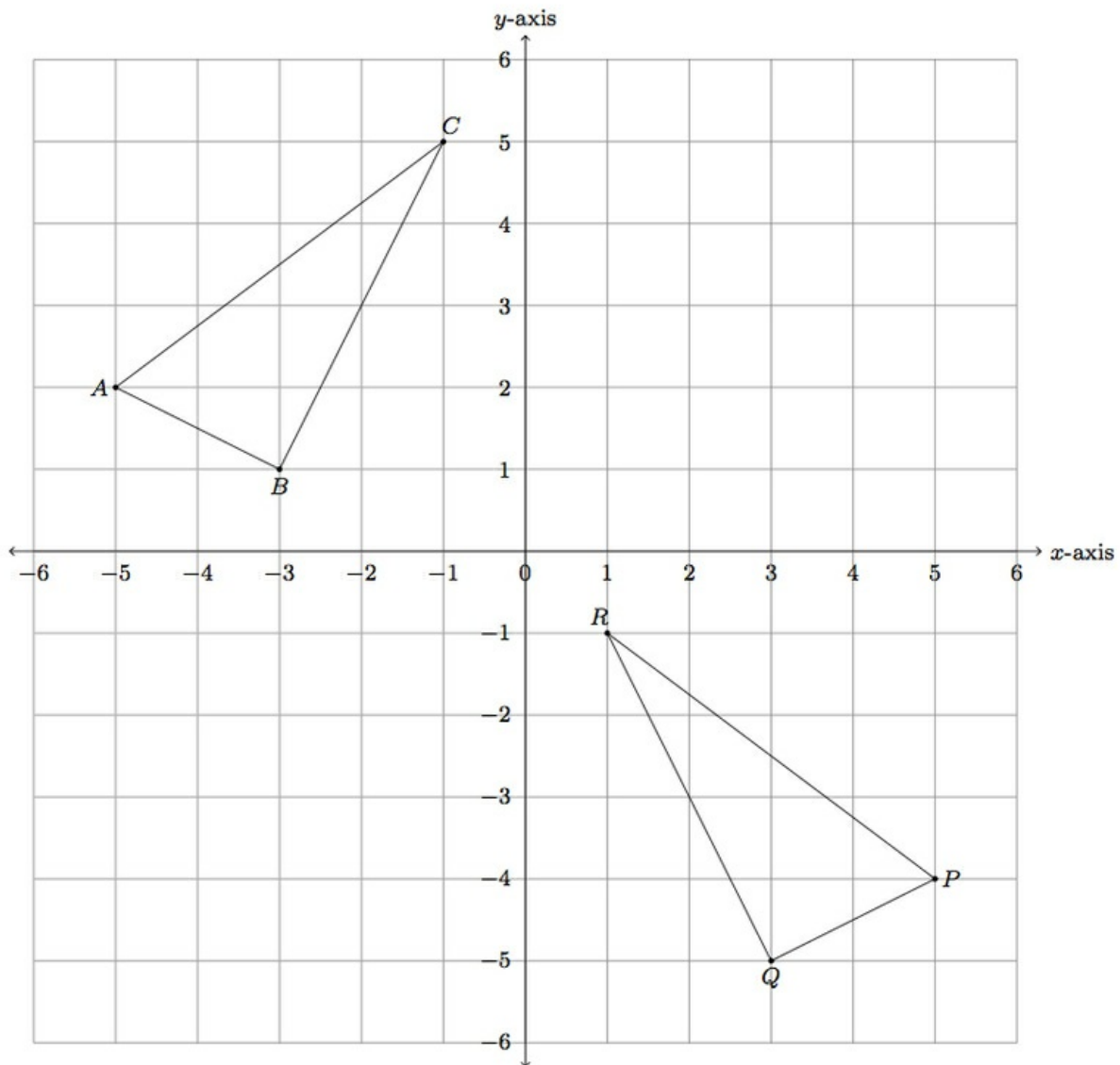


8.G Triangle congruence with coordinates

Task

Triangles ABC and PQR are shown below in the coordinate plane:



- Show that $\triangle ABC$ is congruent to $\triangle PQR$ with a reflection followed by a translation.
- If you reverse the order of your reflection and translation in part (a) does it still map $\triangle ABC$ to $\triangle PQR$?
- Find a second way, different from your work in part (a), to map $\triangle ABC$ to $\triangle PQR$ using translations, rotations, and/or reflections.



8.G Triangle congruence with coordinates
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