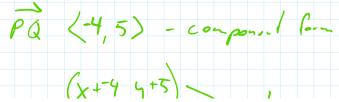
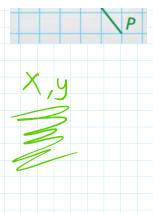


were going to write it as a rule what would it be?

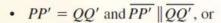




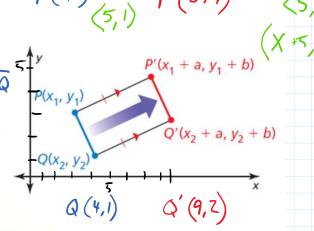
G Core Concept

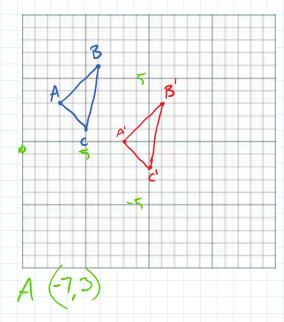
Translations

A **translation** moves every point of a figure the same distance in the same direction. More specifically, a translation *maps*, or moves, the points P and Q of a plane figure along a vector $\langle a, b \rangle$ to the points P' and Q', so that one of the following statements is true.



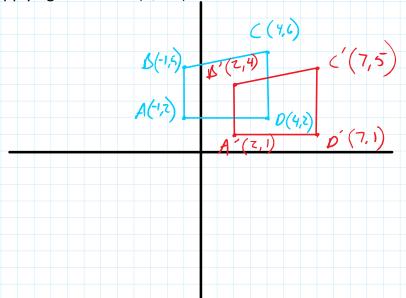
• PP' = QQ' and $\overline{PP'}$ and $\overline{QQ'}$ are collinear.

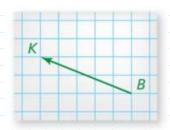




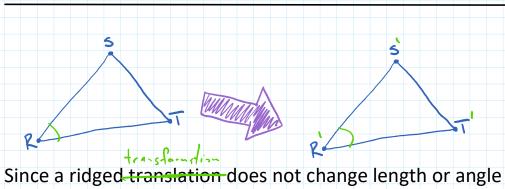
What vector was applied to $\triangle ABC$ to get $\triangle A'B'C'$? Write the vector in component form and write the translation in rule form.

Translate quad ABCD with points A(-1,2), B(-1,5), C(4,6), D(4,2) to quad A'B'C'D', by applying the vector $\langle 3, -1 \rangle$.





Name the vector and write it in component form. If you were going to write it as a rule what would it be?



measure what can be said about:

RS and R'S'

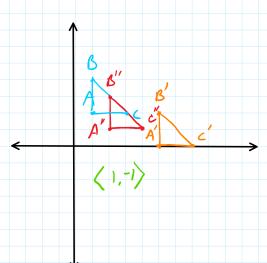
ST and S'T'

TR and T'R'

 $m \angle R$ and $m \angle R'$

 $m \angle S$ and $m \angle S'$

 $m \angle T$ and $m \angle T'$



Draw triangle ABC with points A(1, 2), B(1, 4), C(3,2) and perform the following translations:

Translation #1: $\langle 4, -2 \rangle$.

Translation #2: $\langle -3,1 \rangle$.

