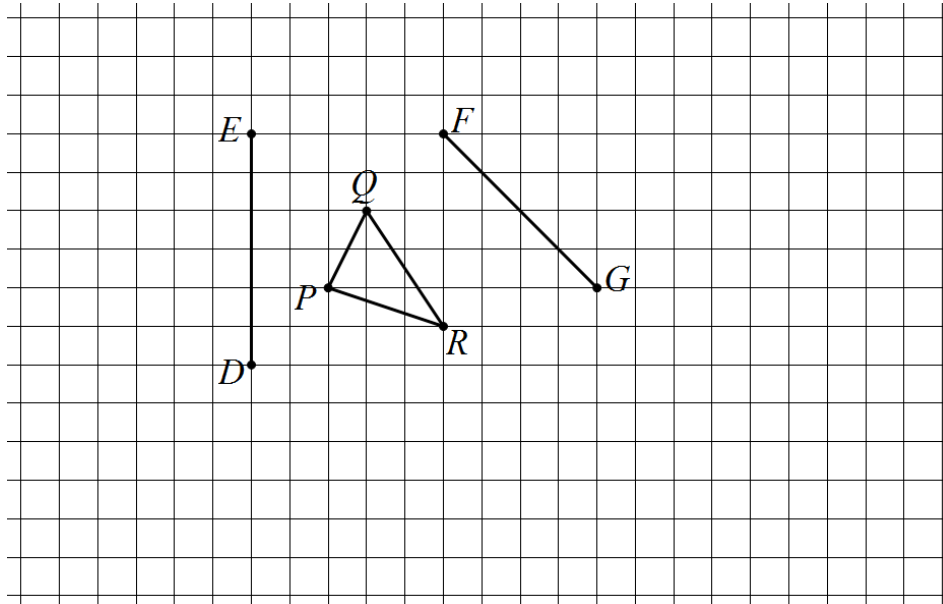


1. Graph and label the image of $\triangle PQR$ under each transformation.



a. $r_{\overline{ED}}$

b. $r_{\overline{FG}}$

c. $T_{\overline{FG}}$

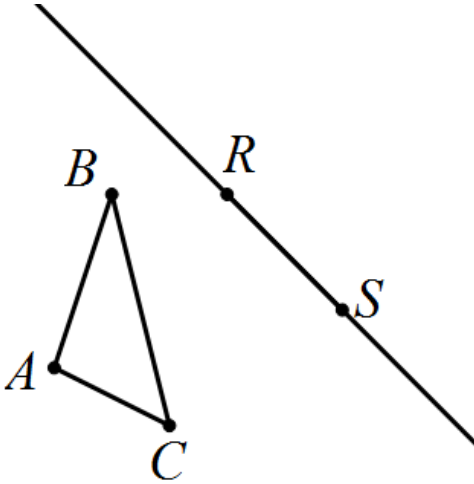
d. $D_{D, 1/2}$

2. Which transformations in question 1 are **rigid motions**? Explain your response.

3. Which transformations in question 1 preserve **parallelism**? Explain your response.

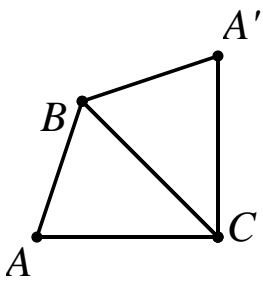
4. Which transformations in question 1 preserve **orientation**? Explain your response.

5. Use a compass and straight edge to reflect $\triangle ABC$ over line \overline{RS} .

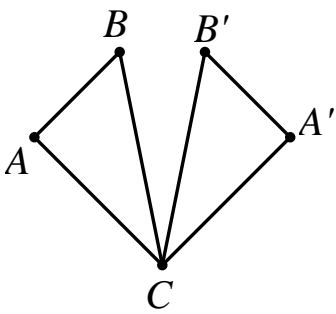


6.

a. Describe precisely the *reflection* that maps $\triangle ABC$ onto $\triangle A'BC$.



b. Describe precisely the *reflection* that maps $\triangle ABC$ onto $\triangle A'B'C$.



d. Describe precisely the *rigid motion* that maps $\triangle ABC$ onto $\triangle BB'C'$.

