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1. Graph and label the image of $\triangle P Q R$ under each transformation.

a. $r_{\overline{E D}}$
b. $r_{\overline{F G}}$
c. $T_{\overrightarrow{F G}}$
d. $D_{D, 1 / 2}$
2. Which transformations in question 1 are rigid motions? Explain your response.
3. Which transformations is question 1 preserve parallelism? Explain your response.
4. Which transformations is question 1 preserve orientation? Explain your response.
5. Use a compass and straight edge to reflect $\triangle A B C$ over line $\overline{R S}$.

6. 


a. Describe precisely the reflection that maps $\triangle A B C$ onto $\triangle A^{\prime} B C$.

b. Describe precisely the reflection that maps $\triangle A B C$ onto $\triangle A^{\prime} B^{\prime} C$.

d. Describe precisely the rigid motion that maps $\triangle A B C$ onto $\triangle B B^{\prime} C^{\prime}$.

