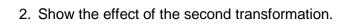
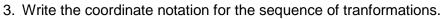
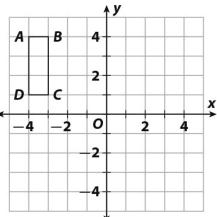
Rectangle ABCD is reflected across the x-axis and translated along the vector (6, 2).

1. Show the effect of the first transformation.







In Exercises 4 - 7, graph $\triangle JKL$ with vertices J(2, 3), K(-2, 1), and L(-1, 5) and its images after the sequence of transformations.

Reflection: in the *x*-axis

4. Translation: $(x, y) \rightarrow (x - 1, y)$ **5. Translation:** $(x, y) \rightarrow (x + 2, y - 3)$

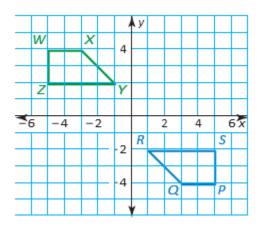
Reflection: in the y-axis

6. Translation: $(x, y) \rightarrow (x, y - 1)$ 7. Translation: $(x, y) \rightarrow (x - 3, y)$

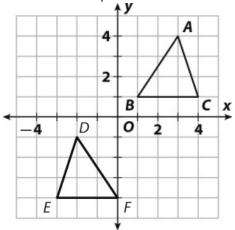
Reflection: in the *y*-axis

Reflection: in the *x-axis*

8. Describe a sequence of transformations that maps PQRS to WXYZ.



9. Describe a sequence of transformations that maps ABC to DFE.



10. Explain why $\Delta \textit{ABC}$ and $\Delta \textit{MNP}$ are congruent.

