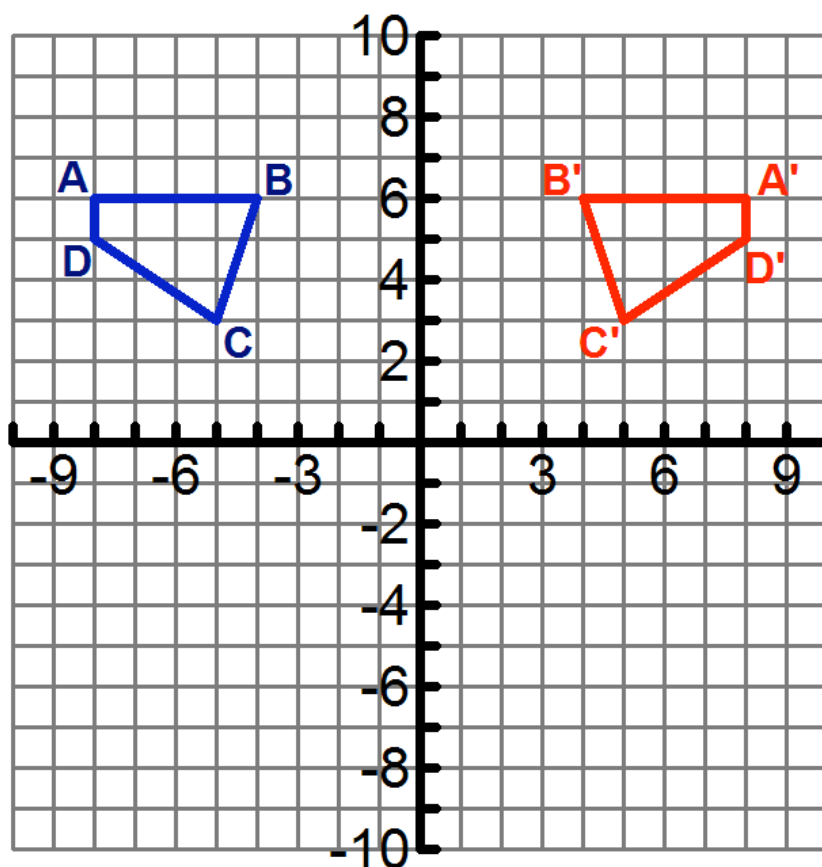


**TASK 2.8.2: REFLECTIONS ABOUT THE Y-AXIS****Solutions**

**II:** Reflect the figure ABCD about the  $y$ -axis to form A'B'C'D'.

1. What is the slope of the line segment A'B'? How does the slope of AB relate to the slope of A'B'? **0; it is the same slope**
2. What is the slope of the line segment B'C'? How does the slope of BC relate to the slope of B'C'? **-3; it is the opposite or the additive inverse**
3. What is the slope of the line segment C'D'? How does the slope of CD relate to the slope of C'D'? **2/3; it is the opposite or the additive inverse**
4. What is the slope of the line segment A'D'? How does the slope of AD relate to the slope of A'D'? **undefined; both are undefined since they are vertical segments**



**TASK 2.8.2: REFLECTIONS ABOUT THE Y-AXIS**

**II:** Reflect the figure ABCD about the  $y$ -axis to form A'B'C'D'.

1. What is the slope of the line segment A'B'? How does the slope of AB relate to the slope of A'B'?
2. What is the slope of the line segment B'C'? How does the slope of BC relate to the slope of B'C'?
3. What is the slope of the line segment C'D'? How does the slope of CD relate to the slope of C'D'?
4. What is the slope of the line segment A'D'? How does the slope of AD relate to the slope of A'D'?

