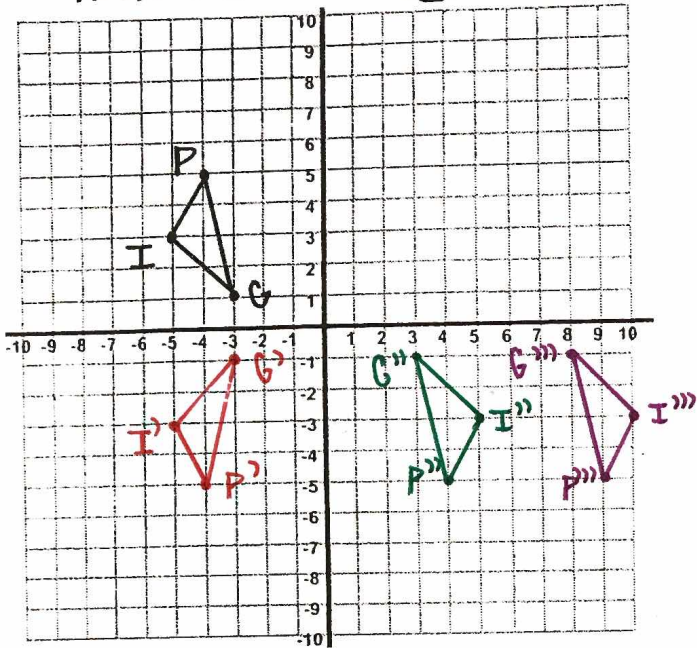
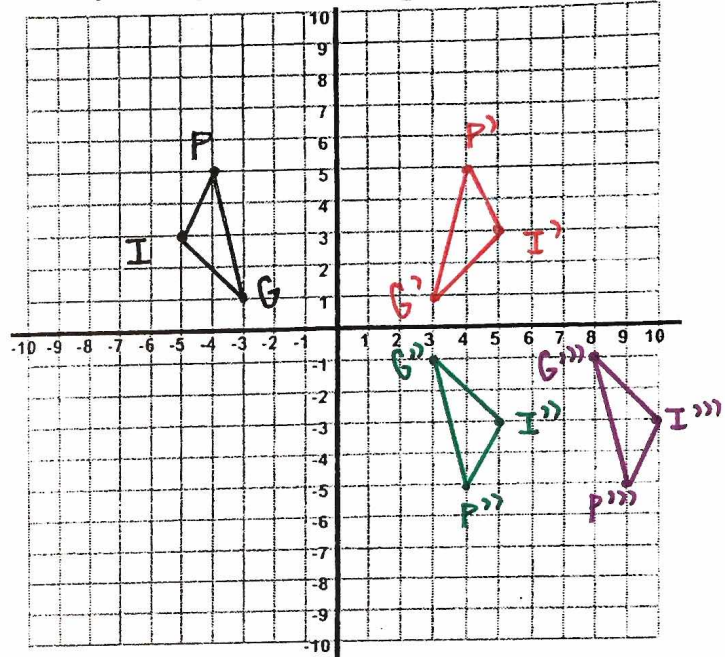


EX 4 | DOES ORDER MATTER WHEN PERFORMING TRANSFORMATIONS? PERFORM THE SEQUENCE OF TRANSFORMATIONS BELOW TO HELP ANSWER THE QUESTION.

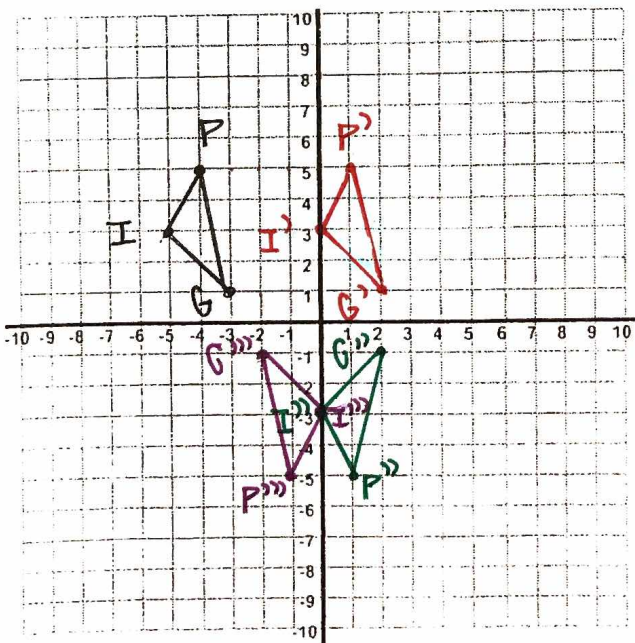
A. REFLECTION ACROSS X-AXIS
REFLECTION ACROSS Y-AXIS
TRANSLATION 5 (R)



B. REFLECTION ACROSS Y-AXIS
REFLECTION ACROSS X-AXIS
TRANSLATION 5 (R)



C. TRANSLATION 5 (R)
REFLECTION ACROSS X-AXIS
REFLECTION ACROSS Y-AXIS



ORDER DOES MATTER. THE FINAL IMAGE IN A AND B ENDED UP IN THE SAME PLACE B/C THE ORDER IN WHICH THE REFLECTIONS ARE PERFORMED DOES NOT MATTER. TO REFLECT ACROSS THE X-AXIS AND Y-AXIS IS A 180° ROTATION THE TRANSLATION IS THE ISSUE. THE FIGURE WILL BE ORIENTED IN THE SAME DIRECTION, BUT IT ENDS UP IN AN ENTIRELY DIFFERENT QUADRANT.