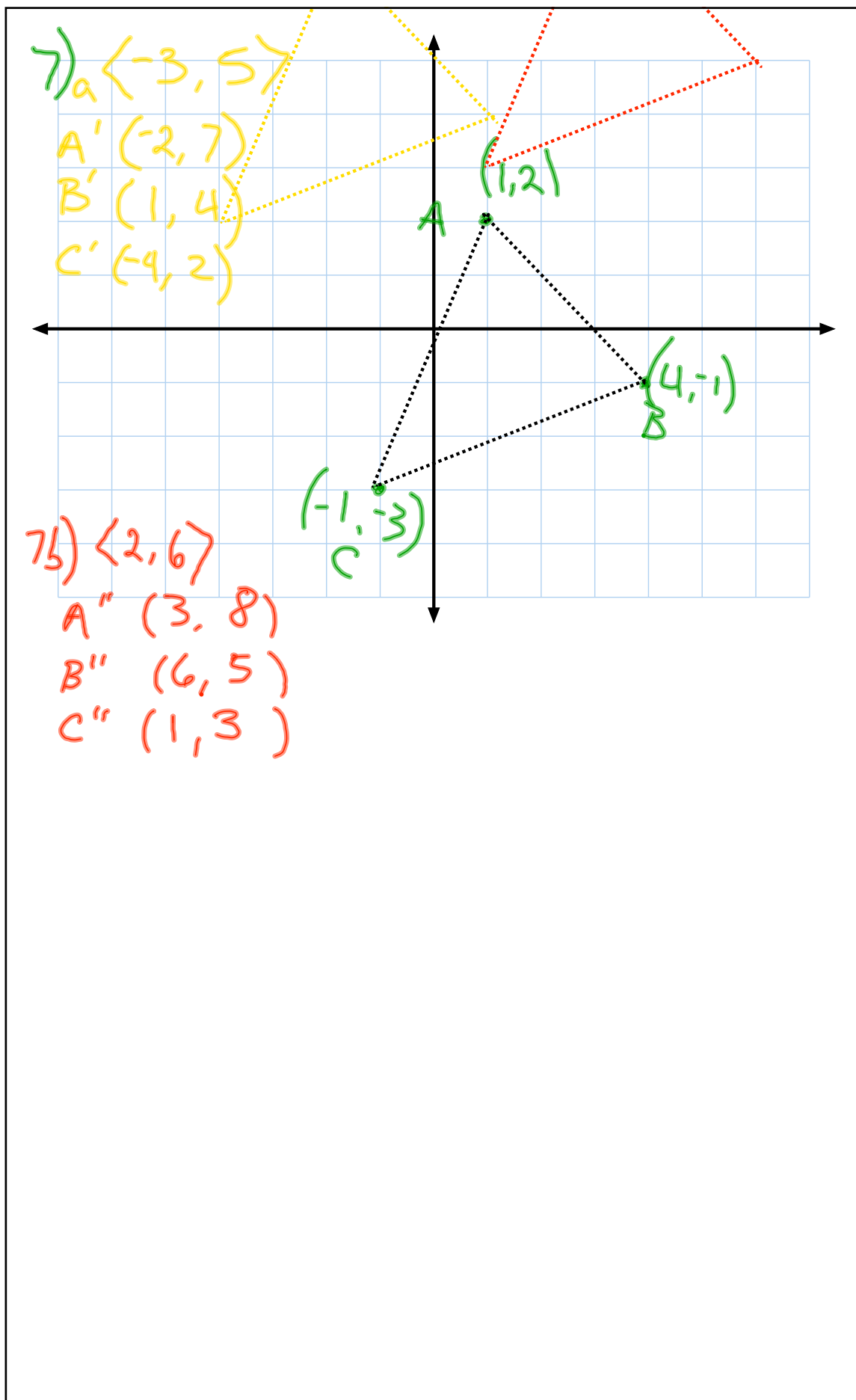
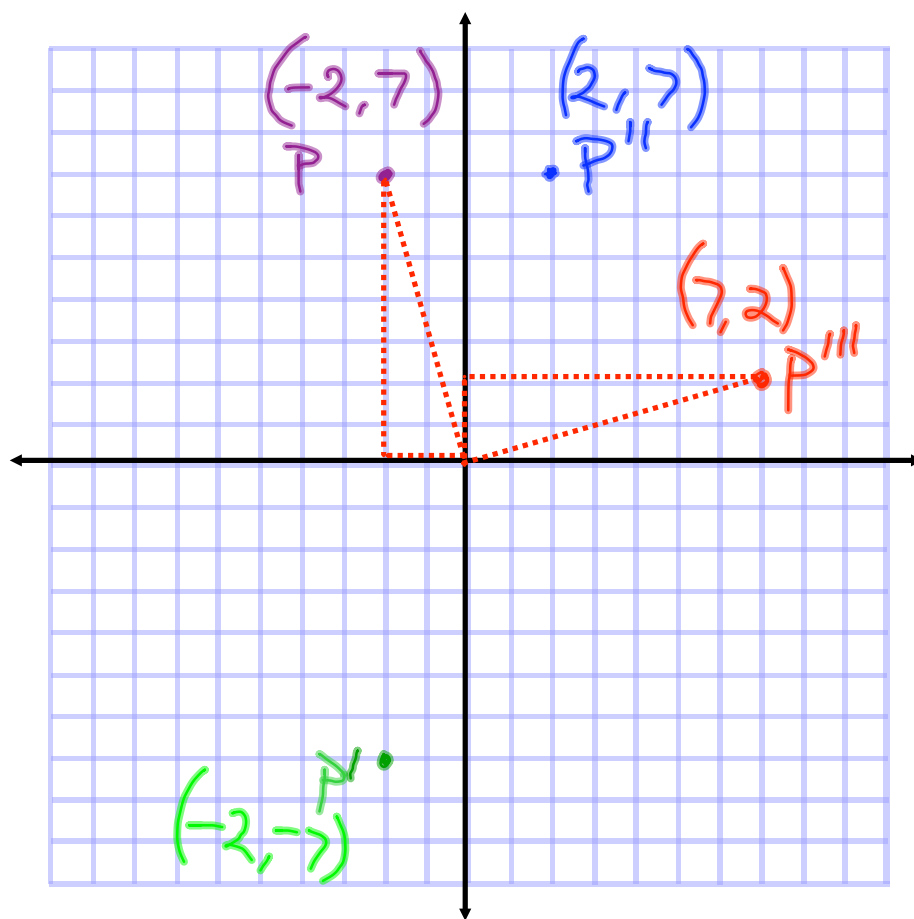


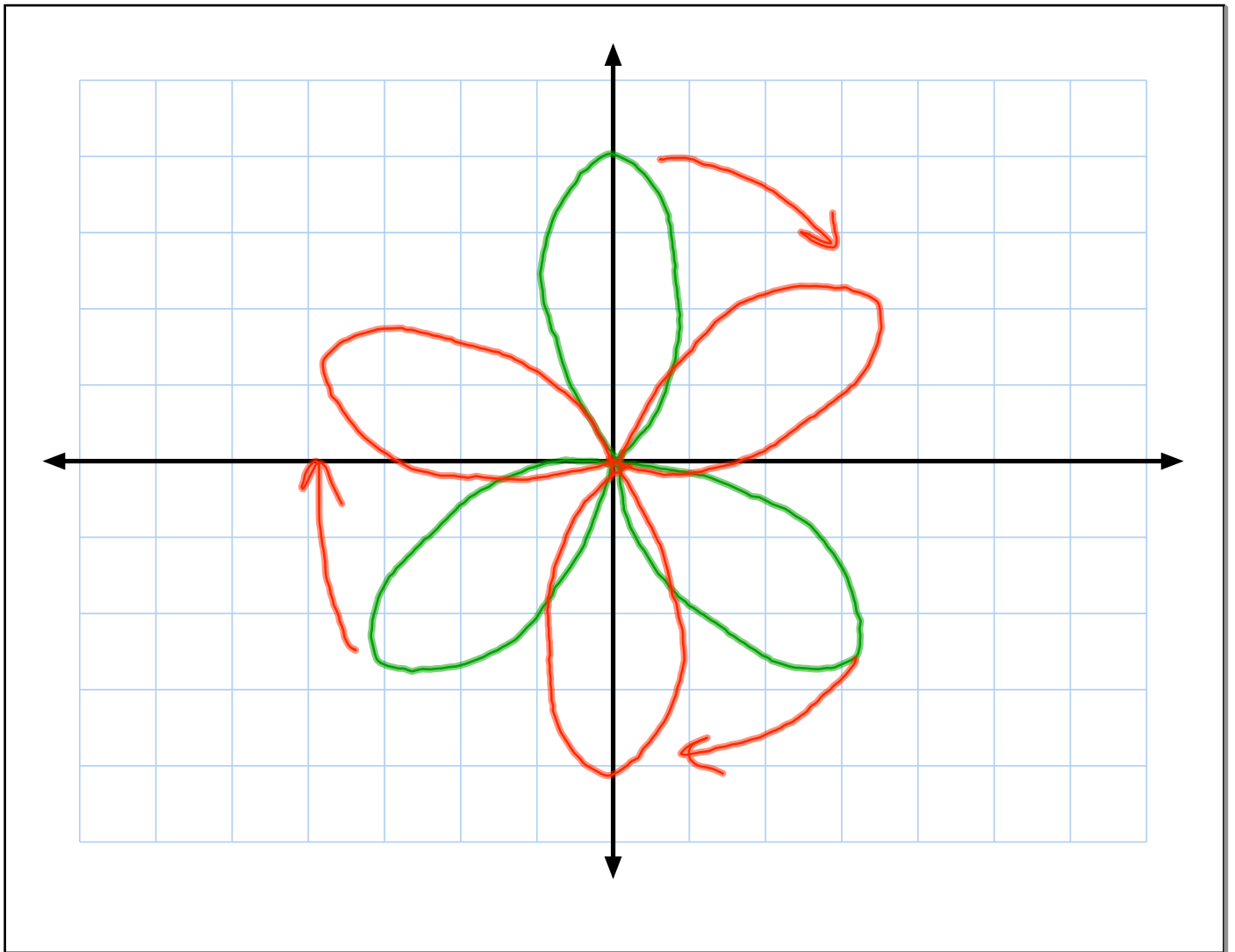
You can use a matrix to help organize this information.

$$\begin{array}{c} X \\ Y \end{array} \begin{array}{ccc} A & B & C \\ \left[ \begin{array}{ccc} -5 & -2 & -7 \\ 8 & 3 & 4 \end{array} \right] \end{array} + \begin{array}{ccc} \text{TRANSLATION} \\ \langle 4, -6 \rangle \\ \left[ \begin{array}{ccc} 4 & 4 & 4 \\ -6 & -6 & -6 \end{array} \right] \end{array} = \begin{array}{ccc} A' & B' & C' \\ \left[ \begin{array}{ccc} -1 & 2 & -3 \\ 2 & -3 & -2 \end{array} \right] \end{array}$$

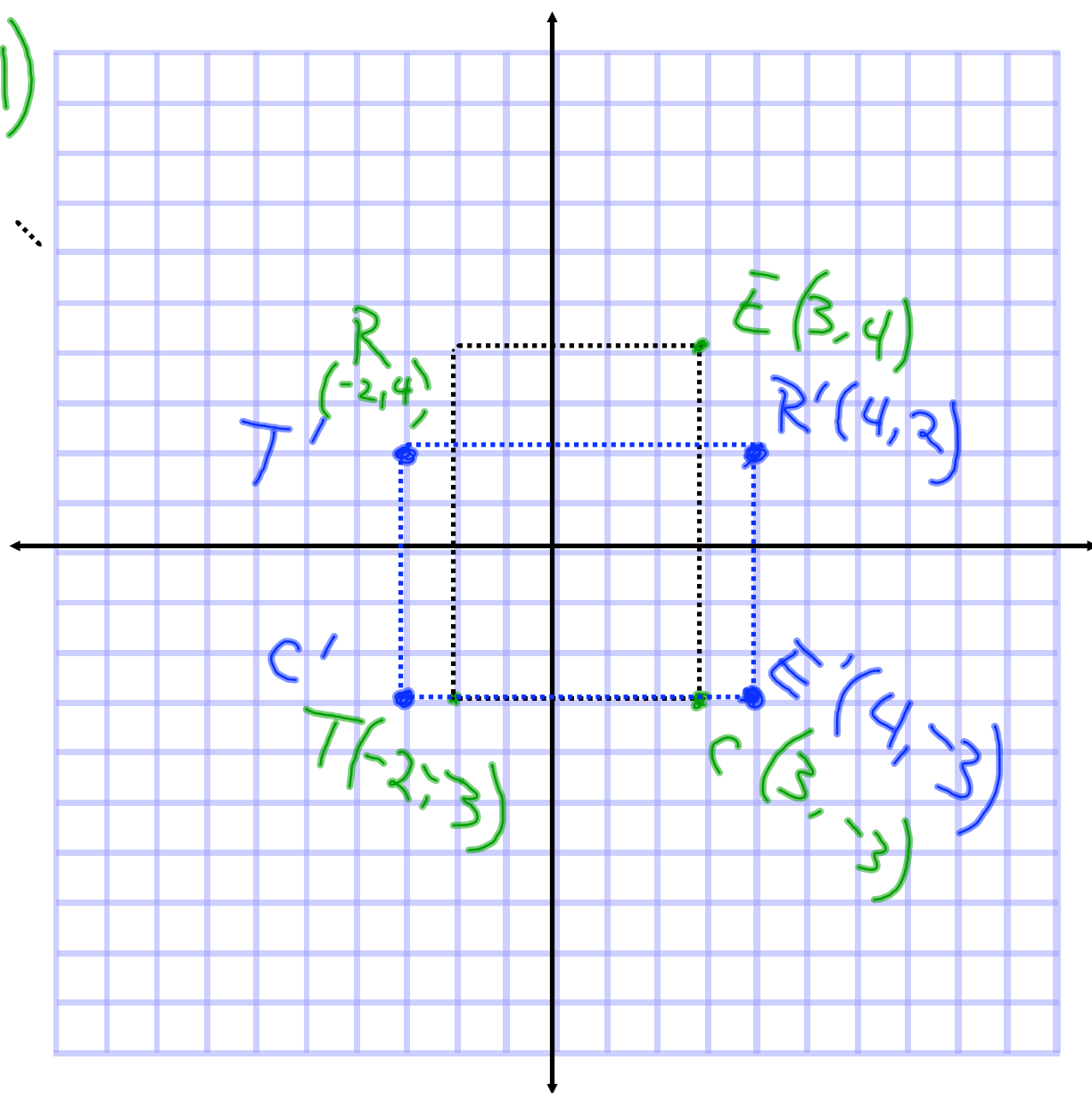


8)





11)



4) M A N D I B L E

$$\begin{array}{l}
 x \\
 y
 \end{array}
 \begin{bmatrix}
 -1 & -1 & 0 & 0 & 2 & 2 & 1 & 1 \\
 1 & 3 & 3 & 2 & 2 & 0 & 0 & 1
 \end{bmatrix}
 +
 \begin{bmatrix}
 -4 & -4 & -4 & -4 & -4 & -4 & -4 & -4 \\
 -6 & -6 & -6 & -6 & -6 & -6 & -6 & -6
 \end{bmatrix}
 =$$

$$\begin{array}{l}
 x \\
 y
 \end{array}
 \begin{bmatrix}
 M' & A' & N' & D' & I' & B' & L' & E' \\
 -5 & -5 & -4 & -4 & -2 & -2 & -3 & -3 \\
 -5 & -3 & -3 & -4 & -4 & -6 & -6 & -5
 \end{bmatrix}$$

Look at previous page  
for how to get all of these  
points

