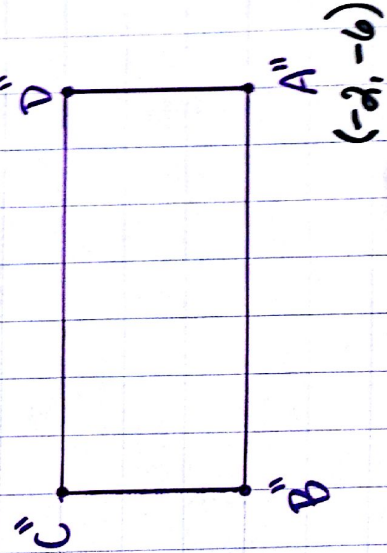
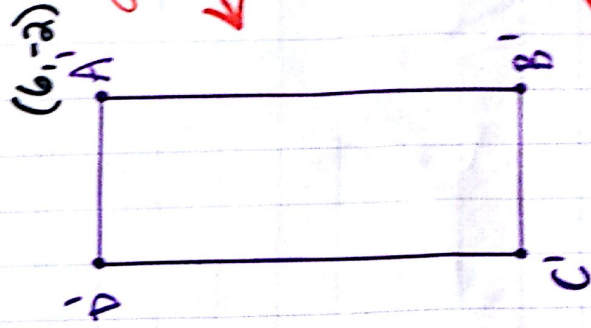
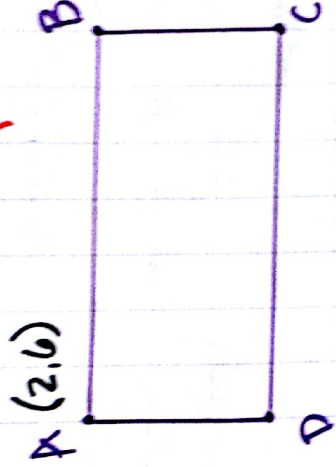
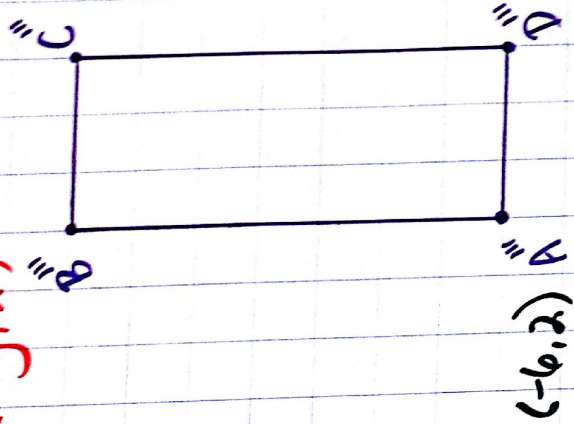


# Rotations

90° Counterclockwise  
 $(x, y) \rightarrow (-y, x)$



180°  
 $(x, y) \rightarrow (-x, -y)$

90° Clockwise  
 $(x, y) \rightarrow (y, -x)$