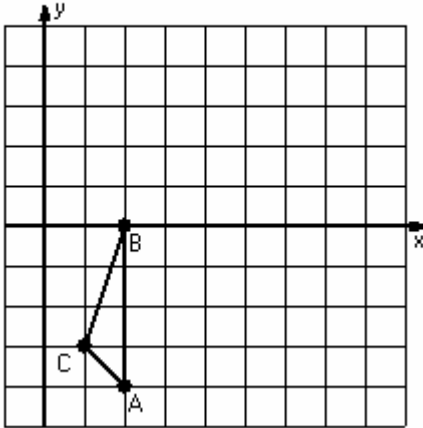


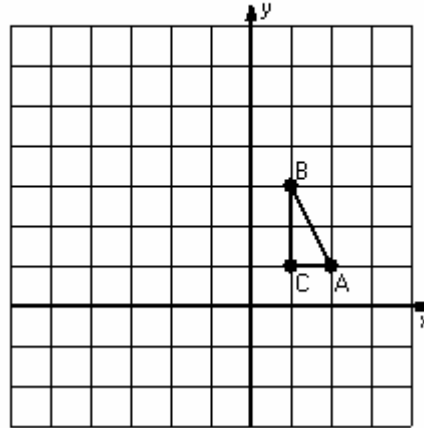
## Three-Step Transformations (E)

Instructions: Transform each triangle three times using the instructions in the order given.  
Draw and label each transformation.

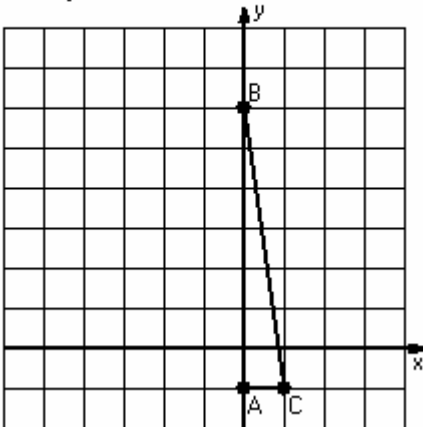
- 1) Translation  $(6,2)$   
 Rotation  $90^\circ$  counterclockwise, center  $R(4,-2)$   
 Reflection  $y = 0$



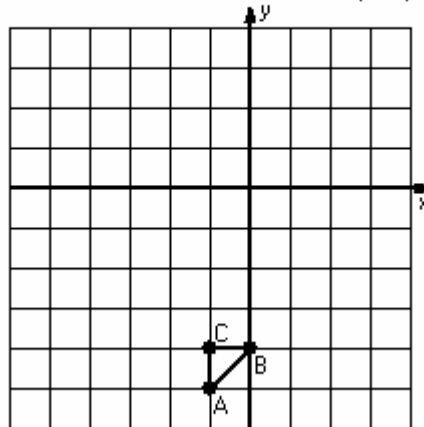
- 2) Dilation scale = 4, center  $D(2,2)$   
 Translation  $(1,0)$   
 Reflection  $x = 0$



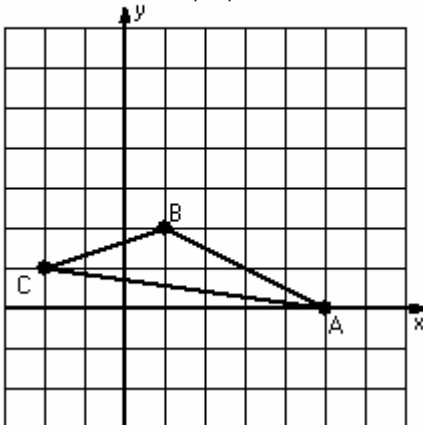
- 3) Rotation  $90^\circ$  counterclockwise, center  $R(1,1)$   
 Translation  $(-1,1)$   
 Reflection  $y = 4$



- 4) Translation  $(-3,2)$   
 Reflection  $x = -1$   
 Rotation  $90^\circ$  counterclockwise, center  $R(-1,-1)$



- 5) Reflection  $y = 3$   
 Translation  $(1,-6)$   
 Rotation  $180^\circ$ , center  $R(2,2)$



- 6) Dilation scale =  $1/3$ , center  $D(3,4)$   
 Rotation  $180^\circ$ , center  $R(4,1)$   
 Reflection  $x = 3$

