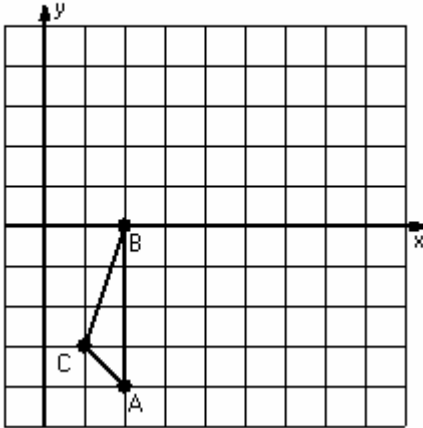


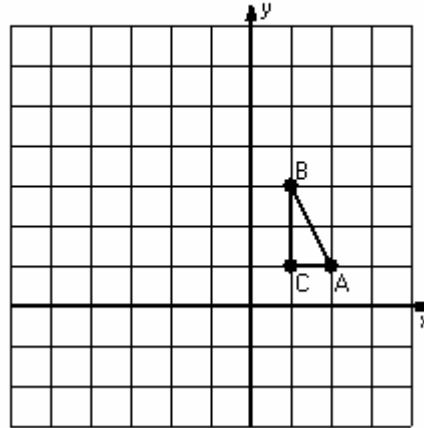
## Three-Step Transformations (E)

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

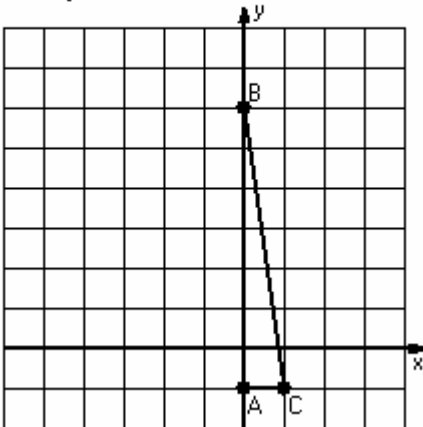
- 1) Translation (6,2)  
Rotation  $90^\circ$  counterclockwise, center R(4,-2)  
Reflection  $y = 0$



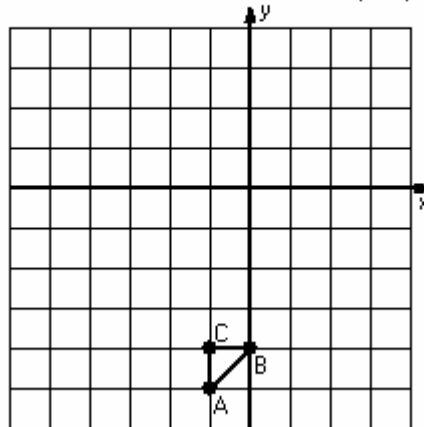
- 2) Dilation scale = 4, center D(2,2)  
Translation (1,0)  
Reflection  $x = 0$



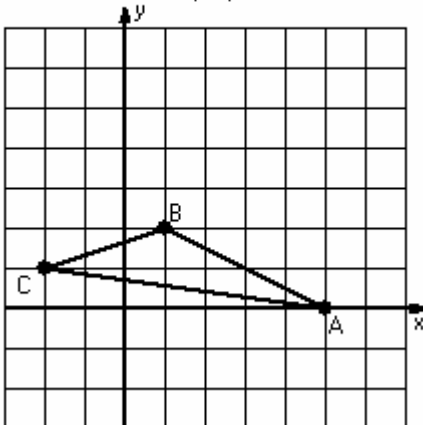
- 3) Rotation  $90^\circ$  counterclockwise, center R(1,1)  
Translation (-1,1)  
Reflection  $y = 4$



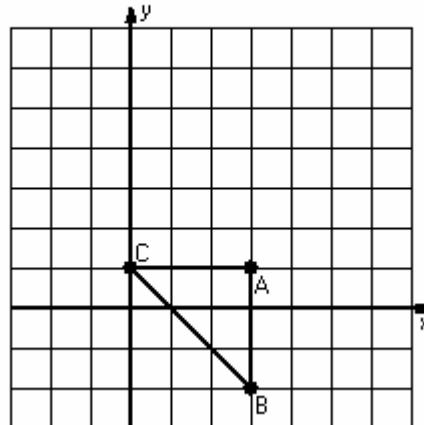
- 4) Translation (-3,2)  
Reflection  $x = -1$   
Rotation  $90^\circ$  counterclockwise, center R(-1,-1)



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



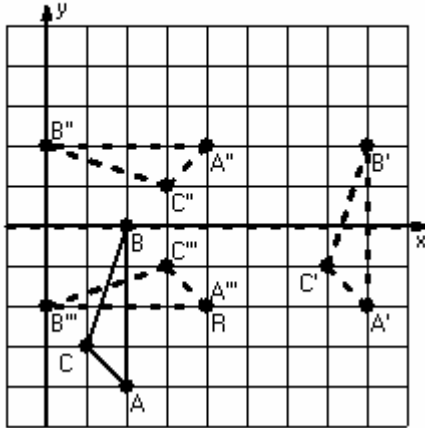
- 6) Dilation scale =  $1/3$ , center D(3,4)  
Rotation  $180^\circ$ , center R(4,1)  
Reflection  $x = 3$



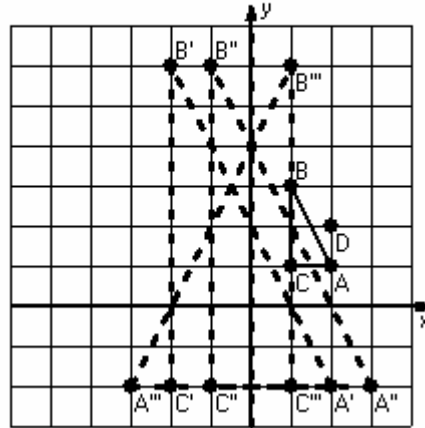
## Three-Step Transformations Answer (E)

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

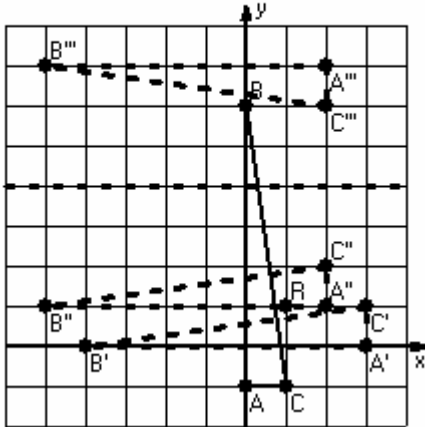
- 1) Translation (6,2)  
Rotation  $90^\circ$  counterclockwise, center R(4,-2)  
Reflection  $y = 0$



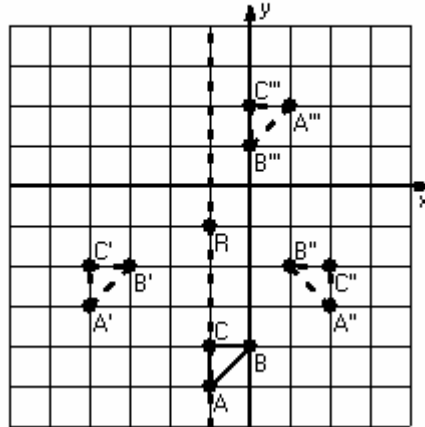
- 2) Dilation scale = 4, center D(2,2)  
Translation (1,0)  
Reflection  $x = 0$



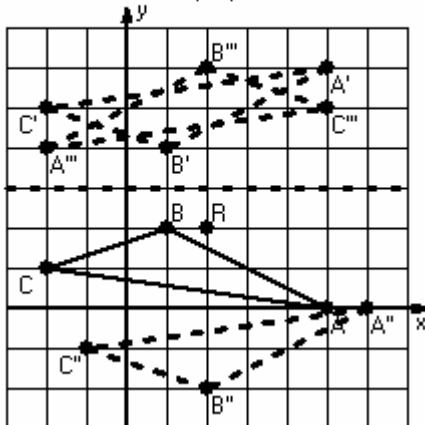
- 3) Rotation  $90^\circ$  counterclockwise, center R(1,1)  
Translation (-1,1)  
Reflection  $y = 4$



- 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  $x = 3$

