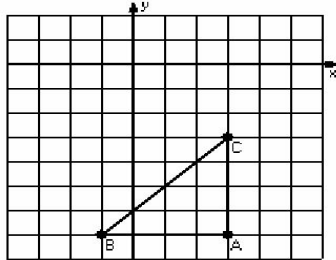


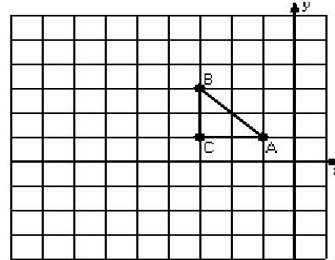
## Two-Step Transformations (F)

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

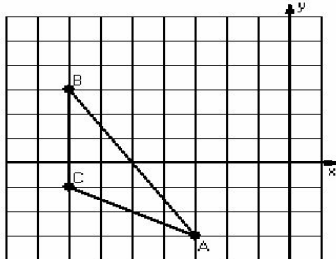
- 1) Dilation scale =  $\frac{1}{4}$ , center  $D(-1, 3)$   
Reflection  $y = -2$



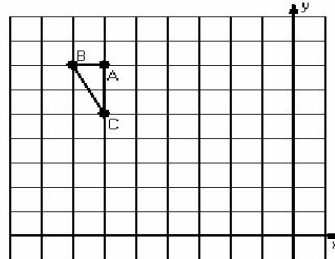
- 2) Dilation scale = 3, center  $D(-1, 3)$   
Rotation  $180^\circ$ , center  $R(-4, 1)$



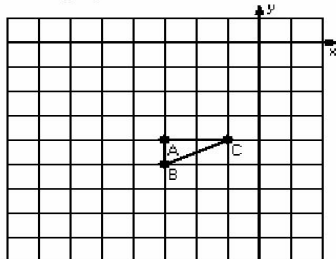
- 3) Dilation scale =  $\frac{1}{2}$ , center  $D(-1, 3)$   
Reflection  $x = -5$



- 4) Rotation  $90^\circ$  clockwise, center  $R(-7, 5)$   
Reflection  $x = -4$



- 5) Dilation scale = 3, center  $D(-2, 5)$   
Translation  $(-1, 1)$



- 6) Translation  $(0, -1)$   
Rotation  $90^\circ$  counterclockwise, center  $R(-3, 1)$

