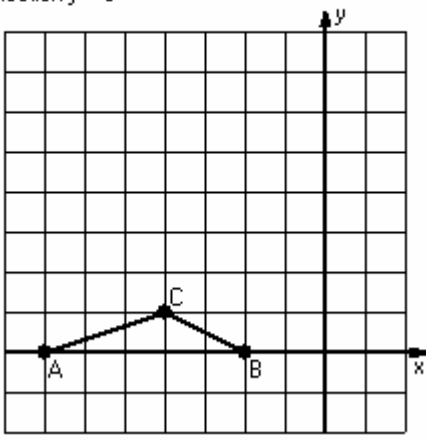
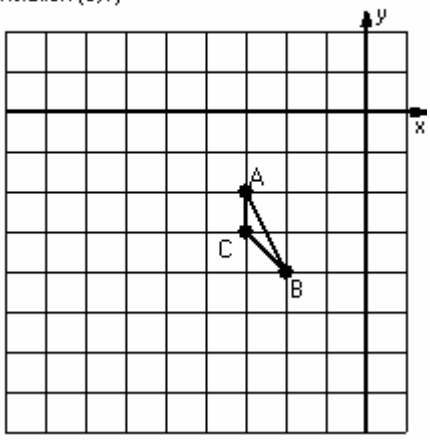
Three-Step Transformations (J)

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

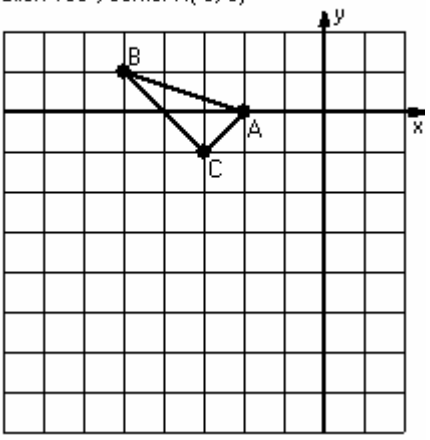
1) Translation (1,0)
Rotation 180°, center R(-4,1)
Reflection $y = 3$



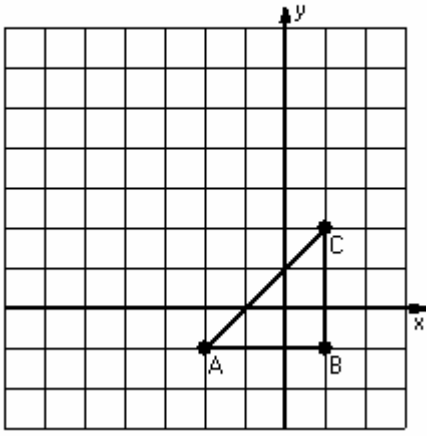
2) Dilation scale = 3, center D(-1,-3)
Reflection $x = -6$
Translation (5,1)



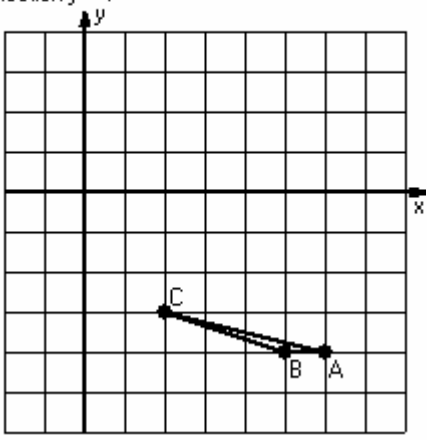
3) Reflection $y = -2$
Translation (0,-2)
Rotation 180°, center R(-3,-3)



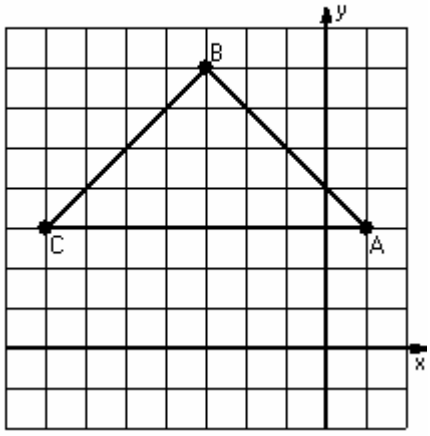
4) Dilation scale = 1/3, center D(1,5)
Rotation 90° counterclockwise, center R(0,0)
Reflection $x = -1$



5) Rotation 180°, center R(4,-2)
Translation (-3,0)
Reflection $y = 1$



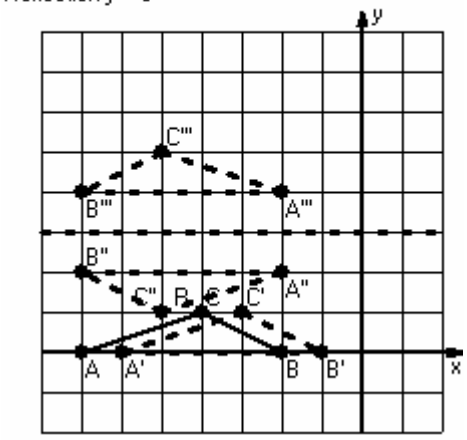
6) Dilation scale = 1/4, center D(-3,3)
Rotation 90° clockwise, center R(-3,1)
Reflection $x = -2$



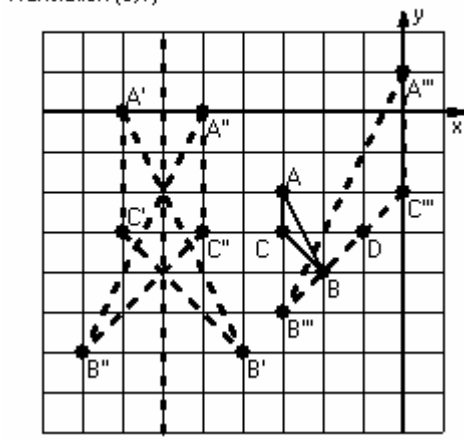
Three-Step Transformations Answer (J)

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

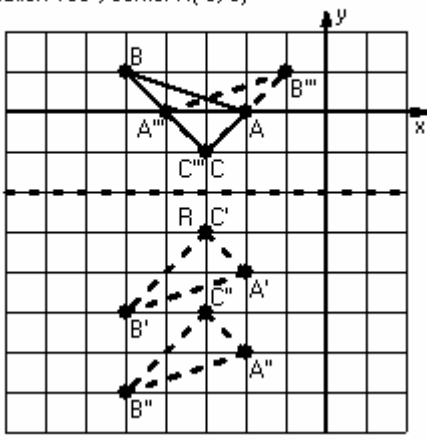
1) Translation (1,0)
Rotation 180°, center R(-4,1)
Reflection $y = 3$



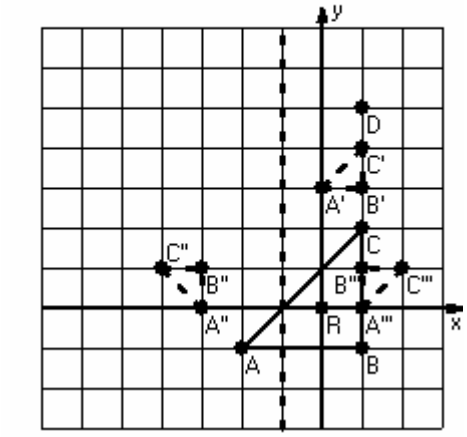
2) Dilation scale = 3, center D(-1,-3)
Reflection $x = -6$
Translation (5,1)



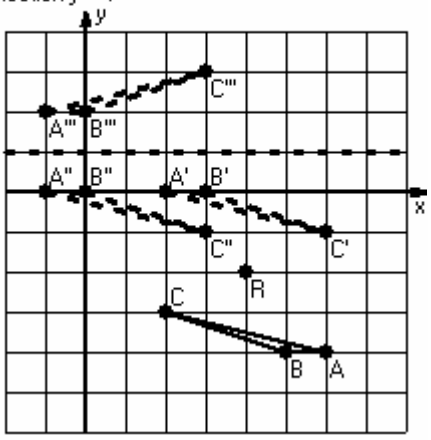
3) Reflection $y = -2$
Translation (0,-2)
Rotation 180°, center R(-3,-3)



4) Dilation scale = 1/3, center D(1,5)
Rotation 90° counterclockwise, center R(0,0)
Reflection $x = -1$



5) Rotation 180°, center R(4,-2)
Translation (-3,0)
Reflection $y = 1$



6) Dilation scale = 1/4, center D(-3,3)
Rotation 90° clockwise, center R(-3,1)
Reflection $x = -2$