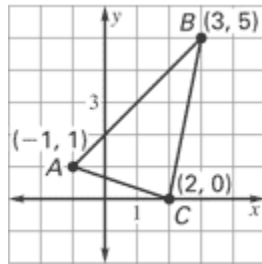


Write the coordinates of the vertices A' , B' , and C' after $\triangle ABC$ is translated.

1. $(x, y) \rightarrow (x + 2, y - 1)$



1. A' _____ B' _____ C' _____

2. $(x, y) \rightarrow (x - 4, y + 6)$

2. A' _____ B' _____ C' _____

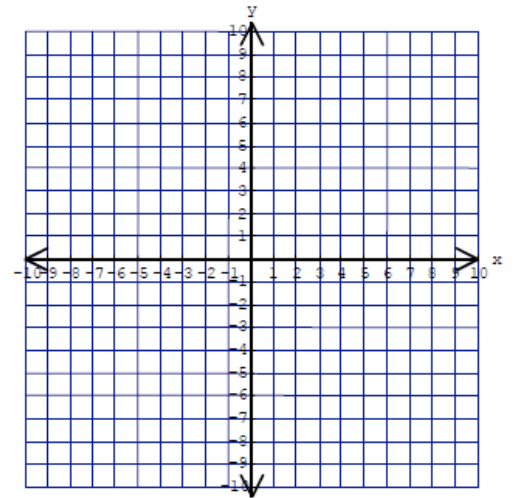
Graph and find the coordinates of the reflection using a coordinate plane.

3. $A(-1, -4)$ $B(-4, -3)$ $C(-6, -6)$ reflected across $x = 1$

A' _____ B' _____ C' _____

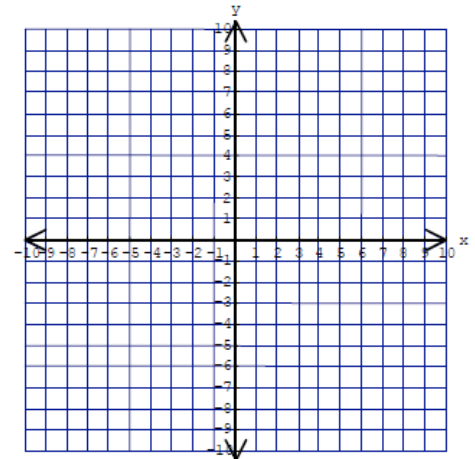
Now reflect the image $A'B'C'$ across the line $y = 2$

A'' _____ B'' _____ C'' _____



4. **Dilation:** Graph triangle ABC: $A(0, 0)$ $B(-2, -1)$ $C(3, -3)$. Use the origin as the center and use a scale factor of 3 to draw the image.

A' _____ B' _____ C' _____



The vertices of a polygon are given. Name the coordinates of the vertices of the image after a clockwise rotation of the given number of degrees about the origin.

5. $D(4, -3)$, $E(4, 5)$, $F(-1, -1)$; 90°

D' _____ E' _____ F' _____

Now rotate the image 180° .

D'' _____ E'' _____ F'' _____

