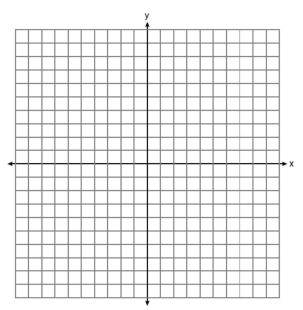
Name _____ Mr. Schlansky Date _____ Geometry

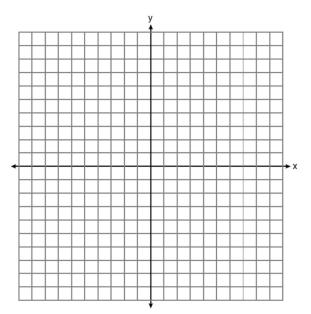


Line Reflections

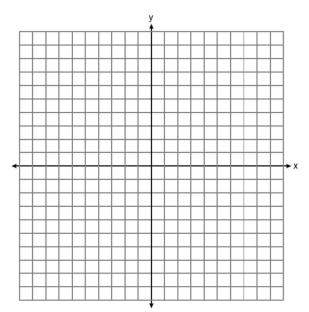
1. Triangle *SUN* has coordinates *S*(0,6), *U*(3,5), and *N*(3,0). On the accompanying grid, draw and label $\triangle SUN$. Then, graph and state the coordinates of $\triangle S'U'N'$, the image of $\triangle SUN$ after a reflection over the x axis.



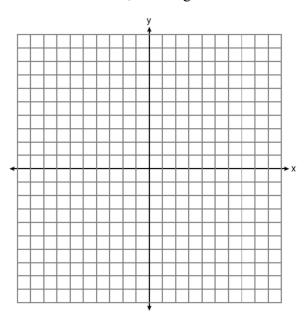
2. On the grid below, graph and label triangle *ABC* with vertices A(3,1), B(0,4), and C(-5,3). On the same grid, graph and label triangle A'B'C', the image of *ABC* after a reflection over the y axis.



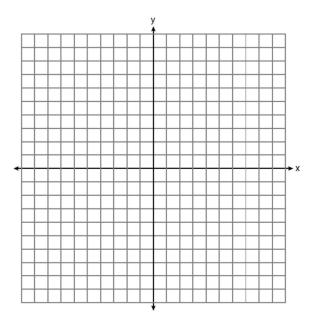
3. Triangle *ABC* has coordinates A(2, 1), B(6,1), C(5,3). What is the image of this triangle after a reflection over the line x = 4. Graph both the image and the pre image.



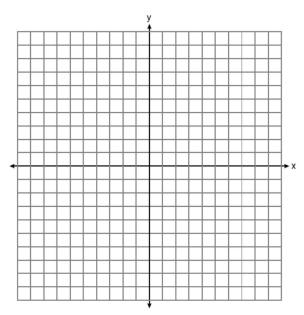
4. The coordinates of the vertices of $\triangle RST$ are R(-2, 3), S(4, 4), and T(2, -2). Graph $\triangle RST$. Graph and label $\triangle R'S'T'$, the image of $\triangle RST$ after a reflection over the line y = -2.



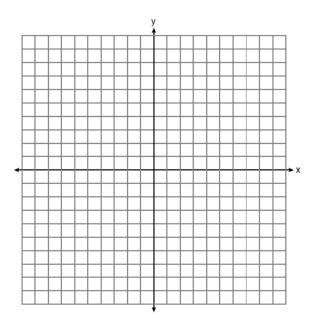
5. The coordinates of the vertices of ΔJKL are J(8,-2), K(6,1), and L(-1,0). Graph ΔJKL . Graph and label $\Delta J'K'L'$, the image of ΔJKL after a reflection over the line y = -3.



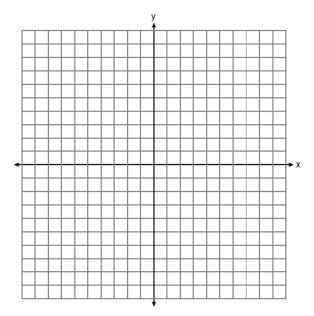
6. Triangle *BIL* has coordinates B(-2,-5), I(0,0), and L(-5,-3). What is the image of this triangle after a reflection over the line x = 3? Graph both the image and the pre image.



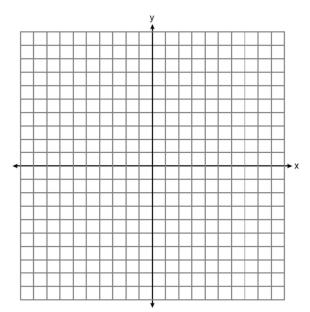
7. The coordinates of the vertices of ΔXYZ are X(2,4), Y(5,-2), and Z(6,7). Graph ΔXYZ . Graph and label $\Delta X'Y'Z'$, the image of ΔXYZ after a reflection over the y axis.



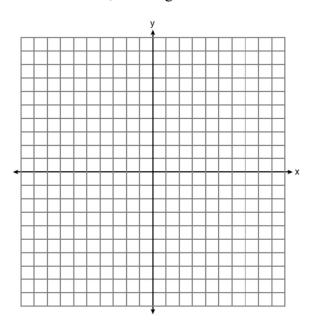
8. The coordinates of the vertices of ΔRAS are R(8,-3), A(2,-5), and S(-1,2). Graph ΔRAS . Graph and label $\Delta R'A'S'$, the image of ΔRAS after a reflection over y = -1.



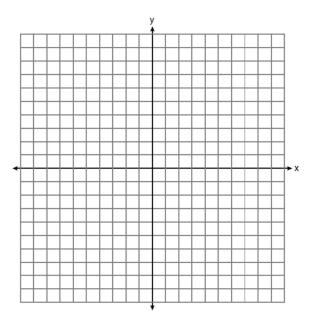
9. Triangle *DAH* has coordinates D(4,-3), A(2,-5), and H(-3,7). What is the image of this triangle after a reflection over the x - axis? Graph both the image and the pre image.



10. The coordinates of the vertices of ΔDYL are D(-5,-2), Y(-2,8), and L(3,6). Graph and label $\Delta D'Y'L'$, the image of ΔDYL after a reflection over x = -2.



11. Triangle *SBR* has coordinates S(-4,1), B(-2,6), and R(5,-2). What is the image of this triangle after a reflection over the line y = x? Graph both the image and the pre image.



12. Triangle *KEV* has coordinates K(-4,1), E(-2,5), and V(3,-6). What is the image of this triangle after a reflection over the line y = x? Graph both the image and the pre image.

