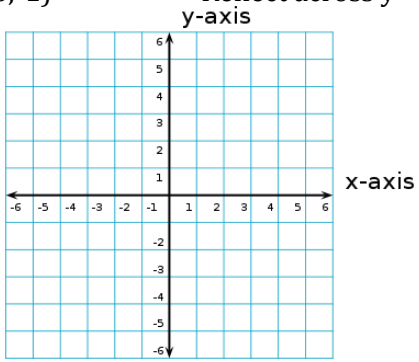
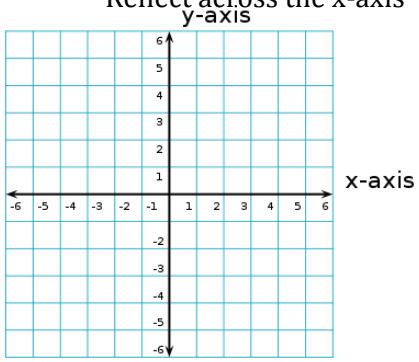
Assessment Review: All Transformations

Graph the figure and its image under the given reflection. Label all points. Give the coordinates of the reflected image.

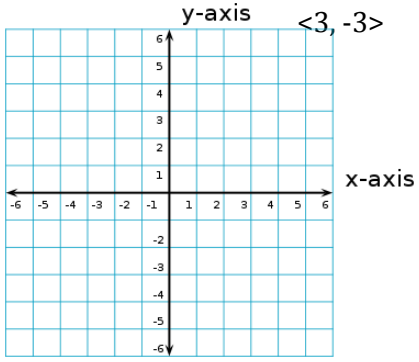
1. ΔFGH with vertices F(-3,-1), G(0,4), H(3,-1) Reflect across y = x.



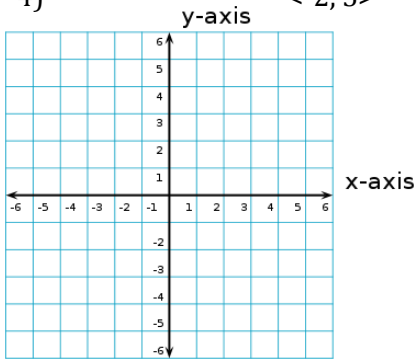
2. Rectangle QRST with vertices Q(-3, 2), R(-1, 4), S(2, 1), and T(0, -1)
Reflect across the x-axis



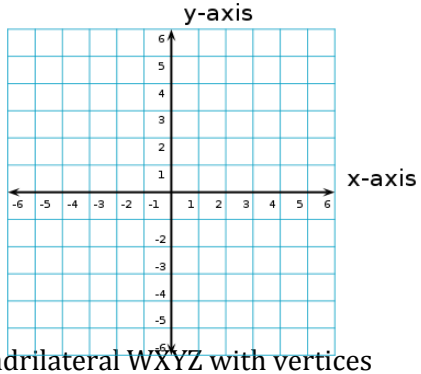
3. Quadrilateral TUVW with vertices T(-3, -2), U(-6, 1), V(0, 1), & W(3, 0)
<3, -3>



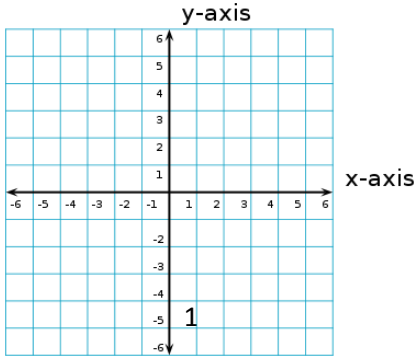
4. ΔJKL with vertices J(-4, -4), K(-2, -1), & L(2, -4)
<-2, 5>



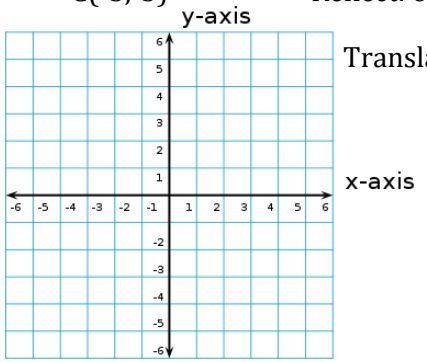
5. ΔPQR with vertices P(1, 3), Q(3, -2), R(4, 2) 90° counter clockwise



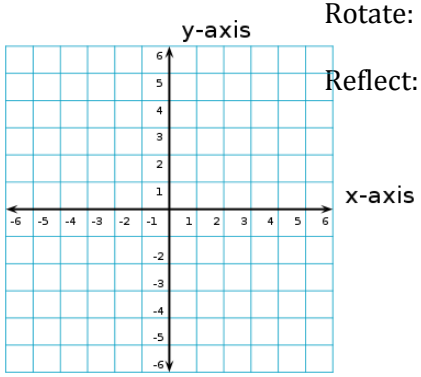
6. Quadrilateral WXYZ with vertices W(-1, 6), X(0, 4), Y(-2, 1) & Z(-4, 3)
180°



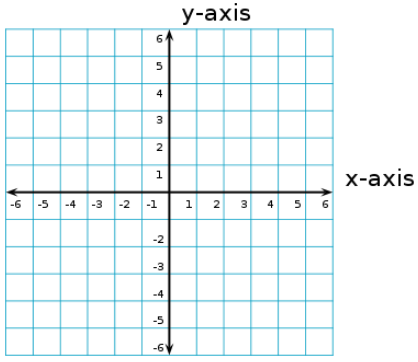
7. ΔABC with vertices A(2,3), B(0,4) C(-3,-3) Reflect: over the x-axis
Translate: <-2, 0>



8. ΔDEF with vertices D(4, 0), E(0, 1), and F(2, 3)
Rotate: 90° clockwise
Reflect: y=2



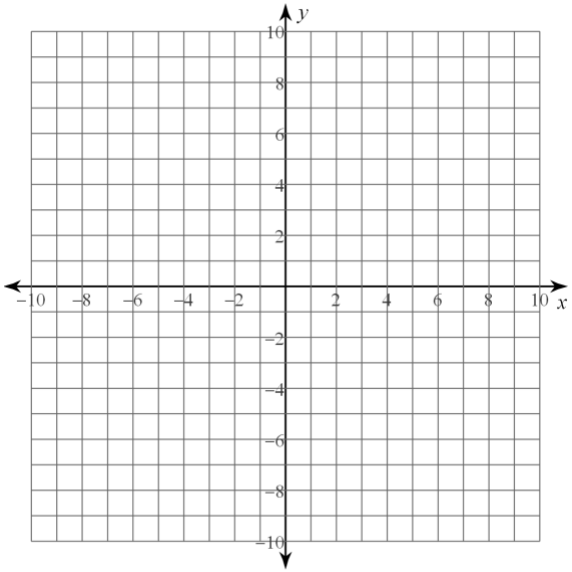
9. ΔXYZ with vertices X(1, -3), Y(-4, 1) & Z(-2, 5) 270° CCW



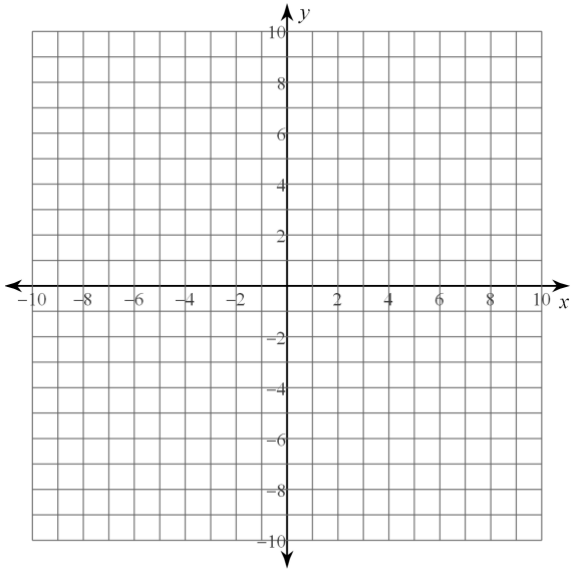
10. Find the image of point A(6, −12) along the translation vector <−4, 7>

11. Given C(3, 1), under which reflection is C'(1, 3)?

12. For triangle ABC with vertices A(1, 3), B(-2, -1) and C(3, -2), **graph ΔABC and its image** after a translation along <0, 2> and a reflection across the y axis. **Label** all points.

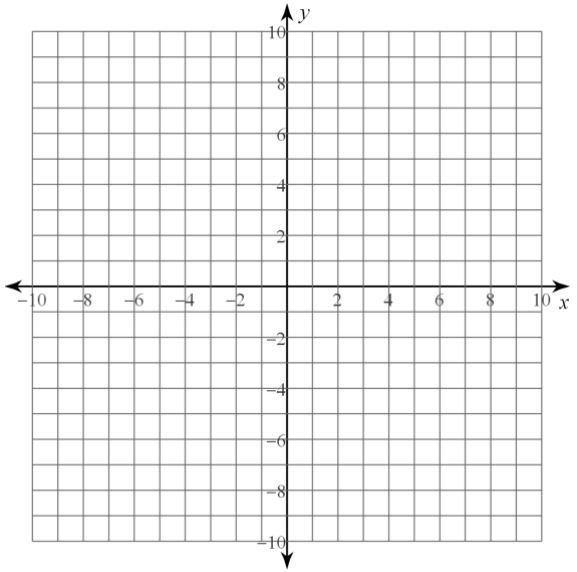


13. Graph quadrilateral DEFG with vertices at D (1, 1), E (1, 5), F (5, 5), and G (5, 1). Quadrilateral DEFG is reflected in the line y=x. Find and graph the coordinates of the transformed image.



14. Parallelogram JKLM has vertices J (2,1), K (7,1), L (6, -3), and M (1, -3). What is the coordinate of K' and K" if the parallelogram is reflected in y=-1 then dilated with k=2?

15. Graph the trapezoid HIJK with vertices H (–2, 5), I (-2, -4), J (–4, –1), and K (–4, 3). Trapezoid HIJK is translated ⟨5, –1⟩ and then reflected in the line x=1. . Find and graph the coordinates of the transformed image.



16. Find the image of B(-4, -7) translated three units to the left and five units up, and then reflected across the line y=x. Find the translated coordinate.