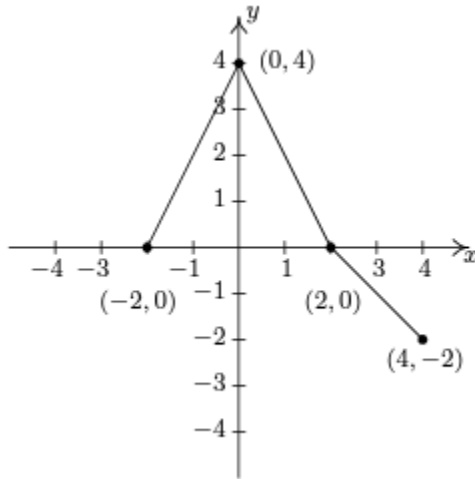


Instructions: Show all work. Use exact answers unless otherwise asked to round.

- Write the function $f(x) = \sqrt{x}$ after it has undergone the following transformations. Your final equation should include all the transformations.
 - Horizontal shift to the right of 2
 - Vertical reflection
 - Vertical stretch by 3
 - Vertical shift down by 5

- Given the graph of the function $f(x)$ below, draw the graph of the function $g(x) = -2f(x - 2) + 3$.



- Find an equation of the line with the following properties: Passing through the points $(-3, -4)$ and $(2, 5)$. Write the solution in:
 - Standard form

 - Slope-intercept form

 - As a function

4. Given the equation $4x + 3y = 24$, write an equation of a line with the following properties:

a. A line parallel to the original line passing through the point $(4, -2)$.

b. A line perpendicular to the original line passing through the point $(-3, 1)$.

5. Solve the equation $|2 - 5x| = 5|x + 1|$.