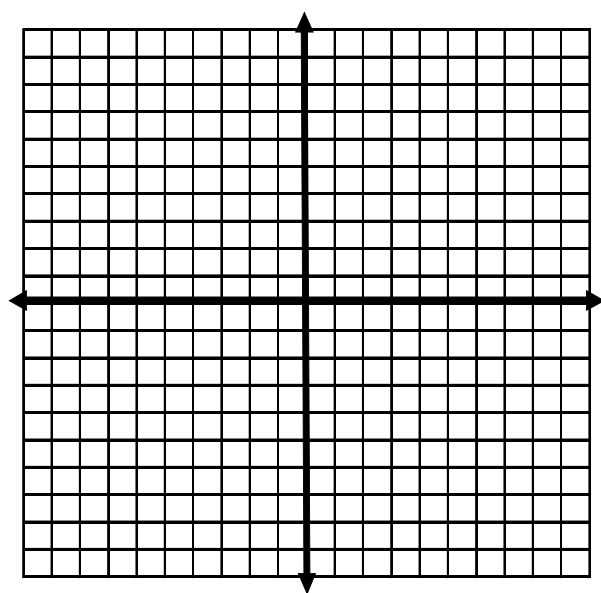
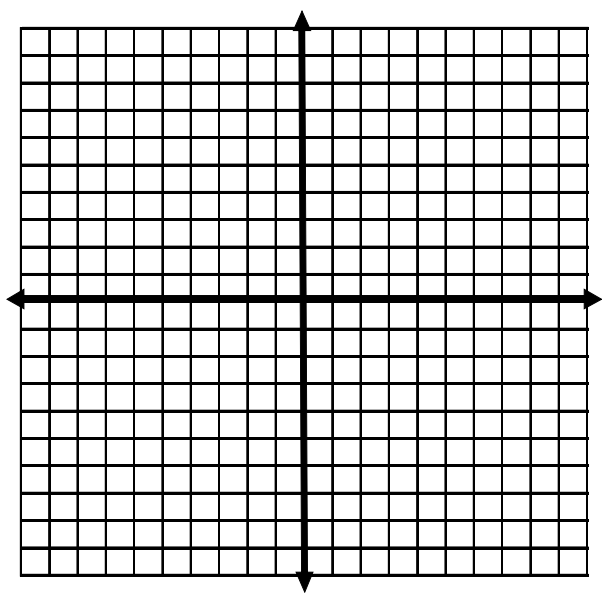


1. Given the function $f(x)$ and $h(x) = f(x + 5) + 1$, describe the transformation.
2. On the set of axes, graph both functions without a table of values. Use your knowledge of parent functions and transformations. Describe the transformations that take place.
 - a) $f(x) = x^2$ and $g(x) = (x - 2)^2 - 3$
 - b) $f(x) = |x|$ and $g(x) = -3|x + 1|$



3. Using your knowledge of the parent function $f(x) = \sqrt{x}$, state the domain and range of a new function given by $g(x) = \sqrt{x - 1} + 5$

4. Given the function $f(x)$ and $g(x) = \frac{1}{5}f(x - 3) + 2$, describe the transformations.
5. Given the function $f(x) = \sqrt{x}$ and $g(x) = 7\sqrt{x}$, determine if they will have the same domain and range. Explain your answer.
6. Given the function $y = |x + 3| - 6$, describe the transformation to the new function $y = |x - 5| - 1$