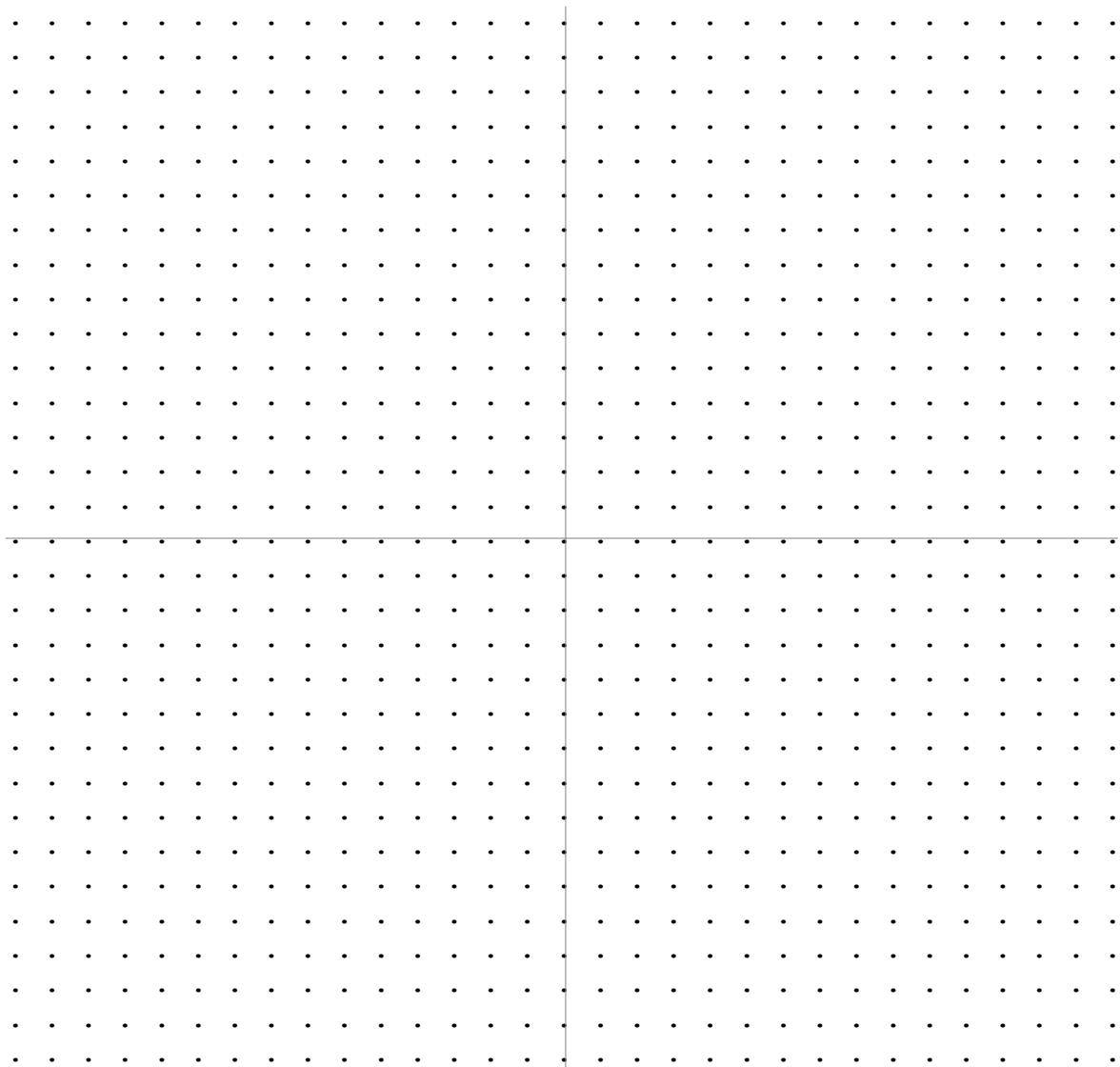


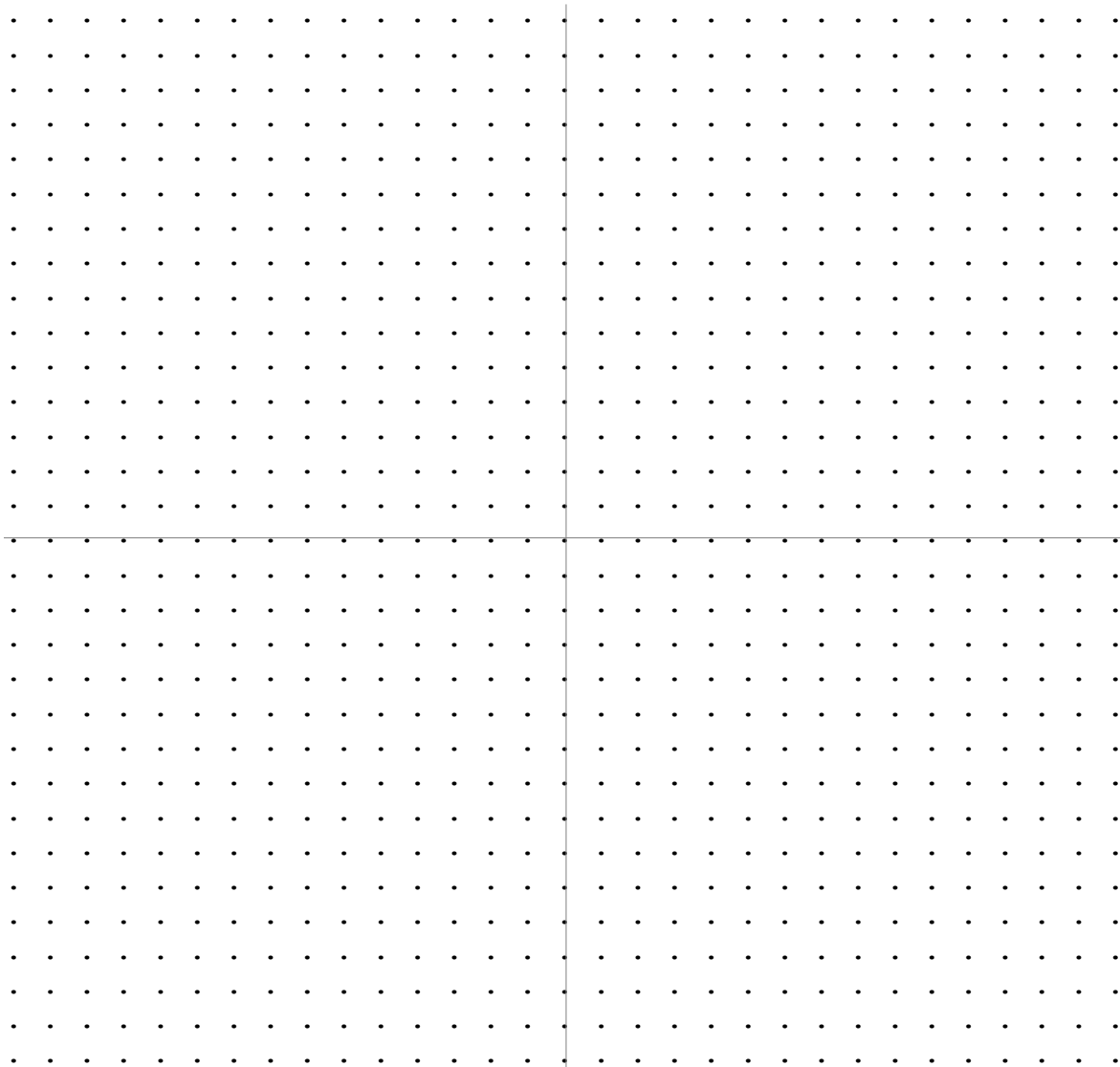
For each function:

- State the Domain and Range
- Graph the function using its transformations. (you do not need to graph the parent function this time)
- Find the Inverse of the function
- State the Domain and Range of the Inverse
- Graph the Inverse using its transformations (some simplification may be required) on the same axis as the original function
- Graph $y=x$ on the same axis as the above. Notice anything?
- Label the graphs so you (and I) know which is the original and which is the inverse.

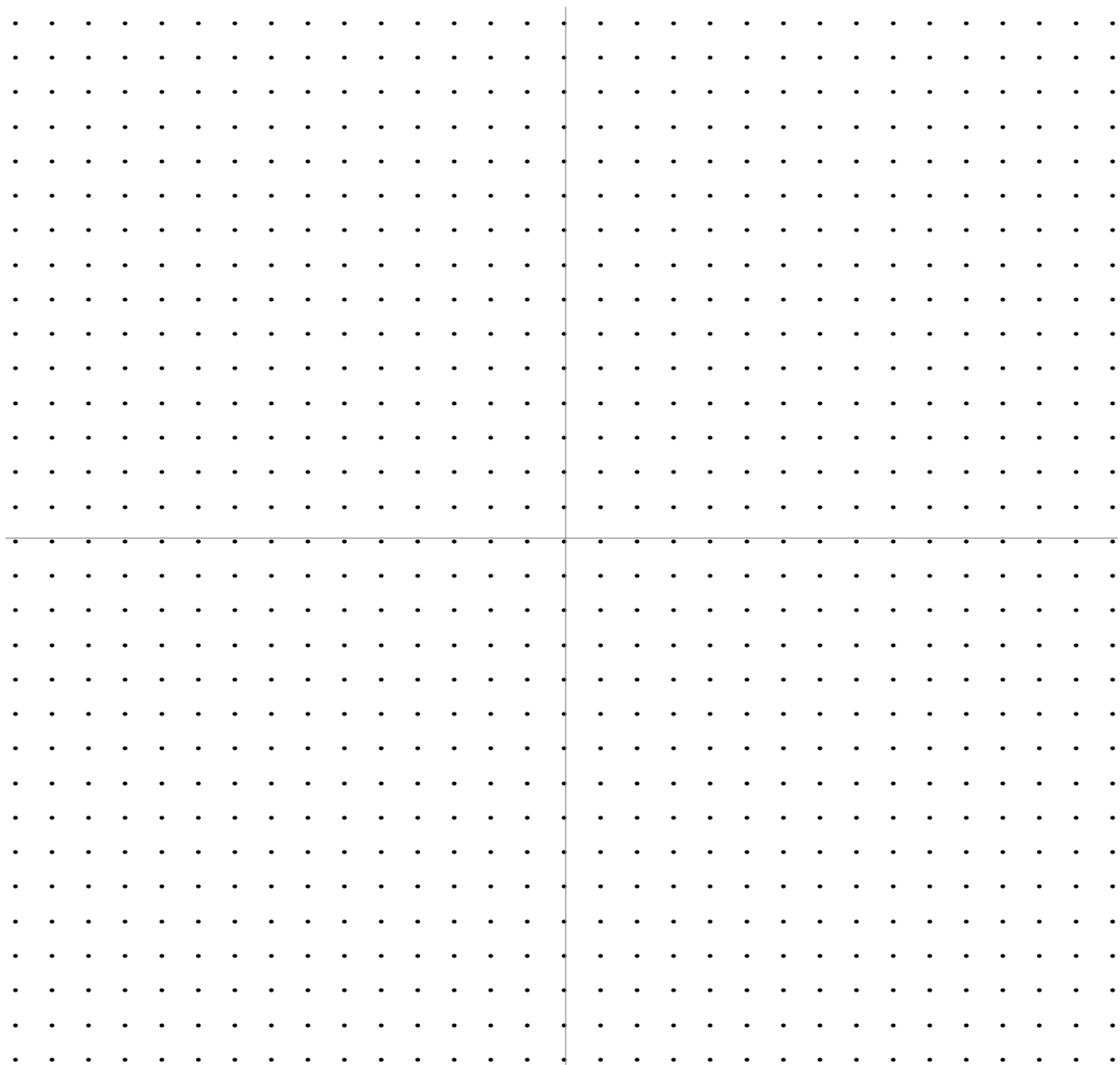
1. $f(x) = -3(x-5)^2 + 8$



2. $g(x) = \frac{4}{x-7} - 5$



3. $h(x) = 2\sqrt{\frac{-1}{3}(x-2)} - 5$ (note that the square root ends at the bracket).



4. $w(x) = \frac{-1}{2}|3x+15|+7$ Note: Do not state the inverse, but try to graph it.

