**Activity 1.6.2 Finding Inverses**

1. Sort the given functions as 1-1 (1 to 1) or not. (Remember to read this as “one-to-one.”) Use your graphing calculator as needed.

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| **1 – 1 Function** | **Not a 1 – 1 Function** |
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1. For the functions in Question 1 that are 1-1, find a formula for the inverse (function) of each function.
2. For each of the functions in Question 2, find the domain and the range of the original function and the inverse function.
3. For the functions from Question 1 that are not 1-1, find a suitable restriction of the domain to make the function 1-1 over that domain. (For example, the function $f\left(x\right)=x^{2}$ has an inverse (function) if we restrict the domain to be *x* ≥ 0.) Once you have found a restriction on the domain, find a formula for the inverse of the function.
4. For each of the functions from Question 4, give the (restricted) domain and the range of the original function and the inverse function.