

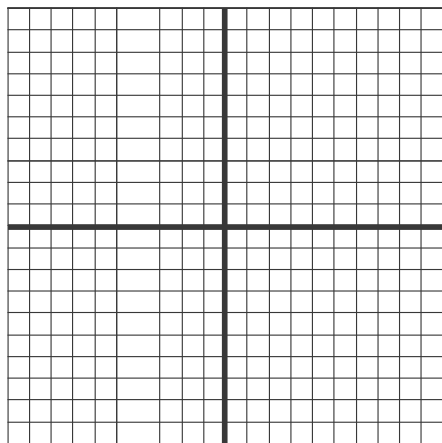
Day 02 Introduction to Graphing Inverse Functions

Name _____
Date _____ Block _____

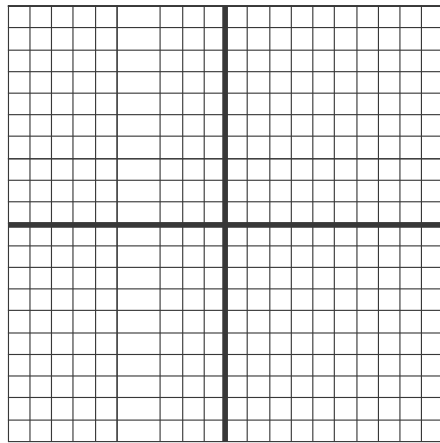
1-6: Do parts A-D for each function.

- Graph the function in pencil without a calculator. Show distinct points for each graph.
- Graph the inverse of the function with a colored pencil. Do this by taking each coordinate (x, y) and plot new coordinates created by switching x and y (y, x).
- Is the inverse a function? State Yes or No.
- Write the equation of the inverse of each function. First, rewrite the equation by switching x and y . Then solve your new equation for y .
 - If the inverse is a function, write the equation in function notation: $f^{-1}(x) = \underline{\hspace{2cm}}$.
 - If the inverse is not a function, write the equation in inverse notation: $y^{-1} = \underline{\hspace{2cm}}$.

1. $f(x) = -\frac{1}{3}(x+1)^2 + 7$



2. $f(x) = -\frac{2}{3}x + 2$



3. $f(x) = 2|x - 3| - 5$

