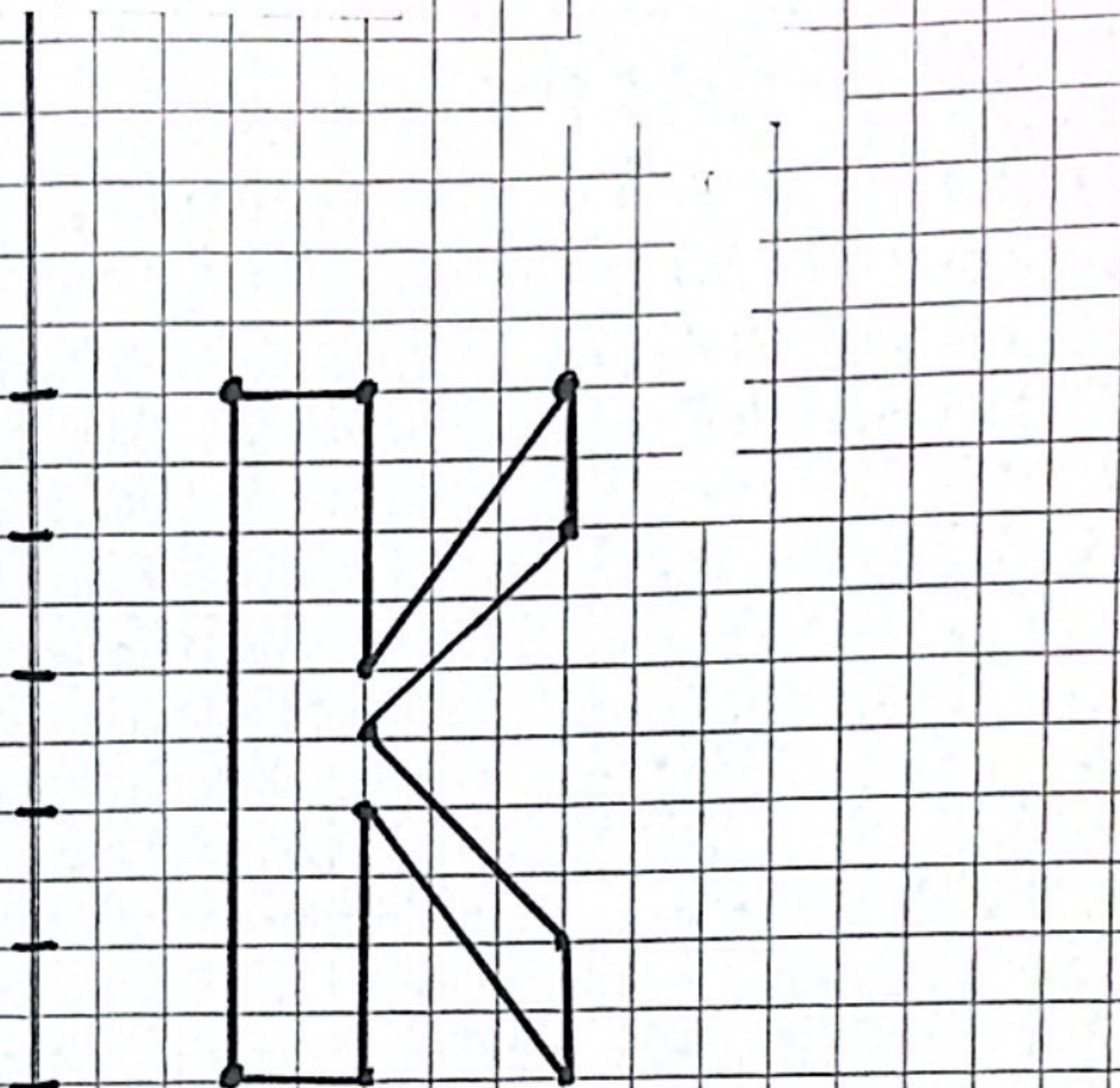
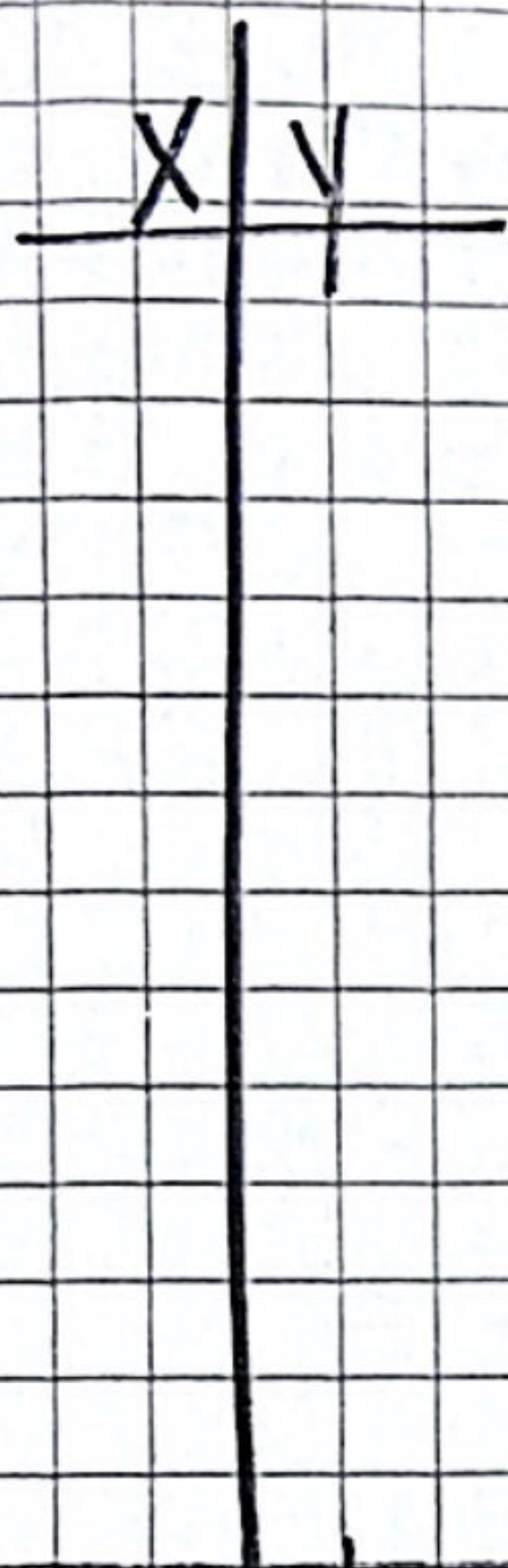


NOTES for Friday,  
March 24



Switch the  
x and y's

Now:



## 6.6 The Inverse of a Function

Look at the functions  $f(x) = 2x + 3$  and  $g(x) = \frac{x-3}{2}$

To get from  $x$  to  $2x + 3$  you will \_\_\_\_\_ and then \_\_\_\_\_.

To get from  $x$  to  $\frac{x-3}{2}$  you will \_\_\_\_\_ and then \_\_\_\_\_.

These two functions \_\_\_\_\_ each other. Thus, they are called \_\_\_\_\_.

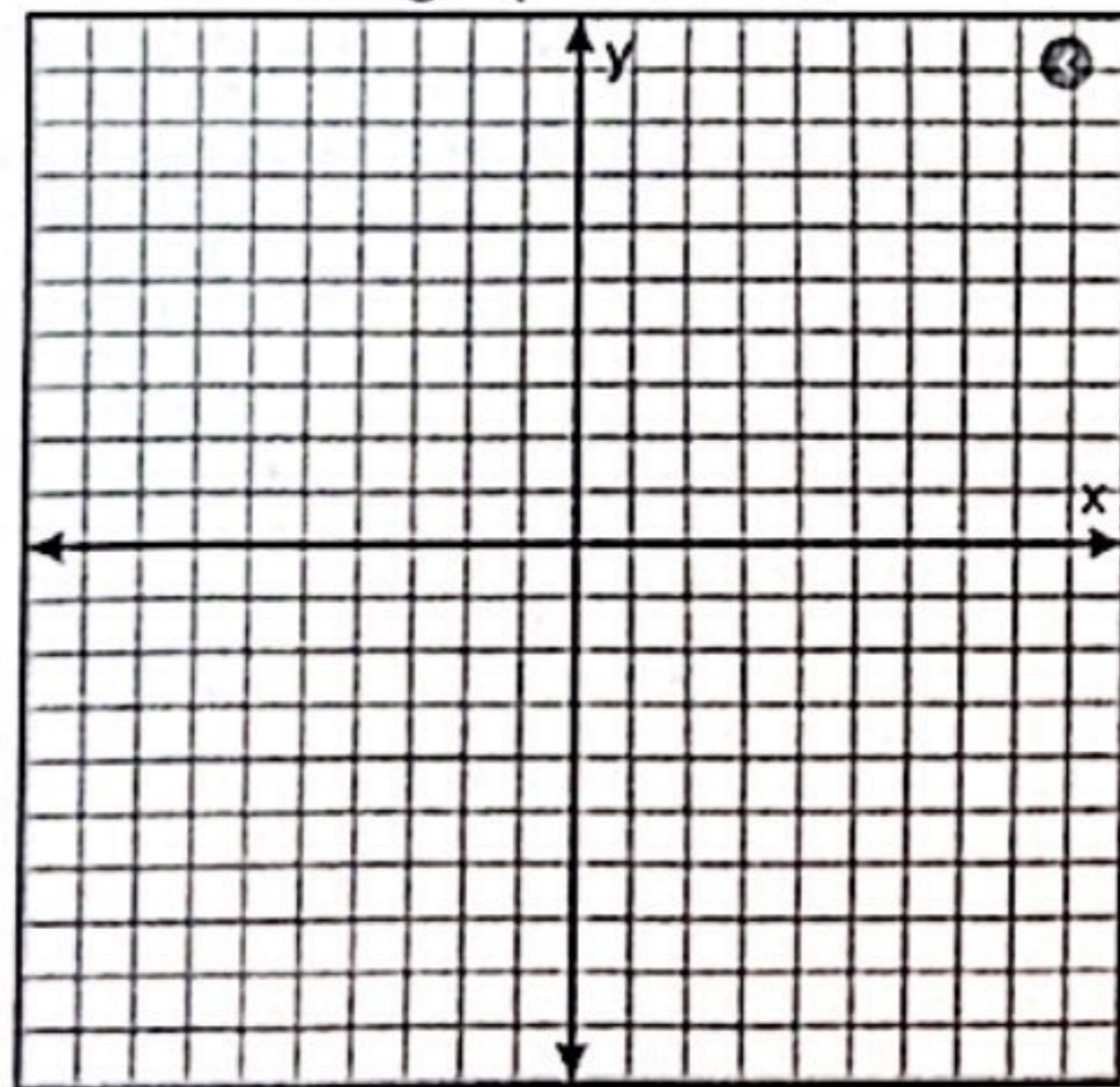
How can you tell if two functions are inverses from a table?

Let's look at a table of values for each of the functions  $f(x) = 2x + 3$  and  $g(x) = \frac{x-3}{2}$ .

x				
f(x)				

x				
g(x)				

Sketch the graphs here.



We can see that \_\_\_\_\_ is a \_\_\_\_\_ of \_\_\_\_\_ over the line \_\_\_\_\_.

The domain of  $f(x)$  is the \_\_\_\_\_ of  $g(x)$ .

The range of  $f(x)$  is the \_\_\_\_\_ of  $g(x)$ .

\*\*\*Thus, you can tell if two functions are inverses by looking for the  $x$  and  $y$  values to be switched in the tables.\*\*\*