ID Functions Warmup

Name(s):

Work in pairs, with one person using the mouse and the other person taking notes on this worksheet. Switch roles as you find something you notice or wonder.

Q1 On page 1, write down what you noticed about the points, and what you wondered:

Things we noticed:

Things we wondered:

Q2 On page 2 what did you notice, or wonder, about the traces of the variables?

Q3 For page 2, fill in the table.
An *independent variable* is a variable you can drag.
A *dependent variable* moves only when you drag its independent variable.
A *fixed point* is a place where you can drag the variables on top of each other.

Independent Variable	Dependent Variable	Description of Relation
$\longrightarrow$		**Speed:** **Direction:** **Fixed Points:**
$\longrightarrow$		**Speed:** **Direction:** **Fixed Points:**
$\longrightarrow$		**Speed:** **Direction:** **Fixed Points:**
$\longrightarrow$		**Speed:** **Direction:** **Fixed Points:**
$\longrightarrow$		**Speed:** **Direction:** **Fixed Points:**

ID Functions Examples   Name(s):

Q4 On page 1, drag the independent variables. What do you notice?

Function	Non-function	Things I noticed and/or wondered
$x \rightarrow x'$	$y \rightarrow y'$	

Q5 On page 2, what do you notice? Do the arrows affect the behavior?

Function	Non-function	Things I noticed and/or wondered. Do the arrows affect behavior?
$b \rightarrow b'$	$a \rightarrow a'$	

Q6 On pages 3–10, only one *relation* on each page is a *function*. For each page, identify the function and write what you noticed and/or wondered.

Page	Function	Non-functions	Things I noticed and/or wondered
3			
4			
5			
6			
7			
8			
9			
10			

Q7 In your own words, write a definition of *function* in complete sentences, using the terms *independent variable* and *dependent variable*.