

# Family Resemblances Answer Form

Name: \_\_\_\_\_

**Q1** How do the labels of the points help you determine which points are independent variables and which are dependent variables?

**Q2** How do the labels help you determine which dependent variable is related to each independent variable?

**Q3** Turn on tracing and drag each independent variable to make a small shape. Describe how each function behaves, based on the shapes. Circle the name of the function that's different.

Function	Behavior
$f$	
$g$	
$h$	
$j$	

**Q4** On page 2, which function behaves differently? Describe the behavior of the three similar functions, and tell how the other function behaves differently.

**Q5** Use tracing on page 3, and try to drag the variables for each function together. (A place where you can bring them together is called a *fixed point*.) Use the fixed points to describe how three functions are similar and the fourth is different.

**Q6** On page 4, which function is different? Use the relative directions of the traces to describe the similarities and differences.

**Q7** On page 5, which function is different? Use the relative speeds of the traces to describe the similarities and differences.

**Q8** For pages 6, 7, and 8, identify the function that's different in the Fn column, and describe how it's different.

Page	Fn	Describe the difference
6		
7		
8		

**Q9** For pages 9, 10, and 11, drag the pictures. Then identify the function that's different, and describe how it's different.

Page	Different Function	Describe the difference
9		
10		
11		