Open the TI-Nspire document Graphical_Derivatives.tns.

Objective: To recognize relationships between functions and their derivatives using graphs.

Directions: The TI-Nspire document has several function and derivative graphs on the same screen. Examine each graph with your partner and determine which graph represents the function or derivative.

Move to page 1.2.

Problem 1: Work in pairs to discuss observations about the relationship between the graph labeled *derivative* and the graph labeled *function*.

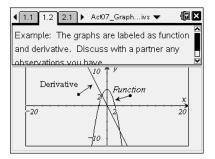
Be prepared to share your observations.

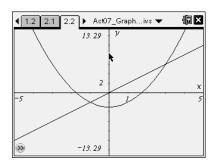
Move to page 2.1.

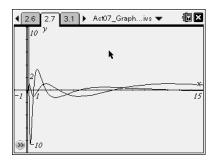
Work in pairs to determine which graph is the derivative or function for problems 2.2 to 2.7.

Determine which graph represents the derivative or the function.

Press œrr) ▶ and œrr ◀ to navigate through the lesson.







Name	
Class	

Move to page 3.1.

This problem asks to draw a derivative or function graph for several displayed graphs using what you have learned from the previous problem.

4 2.6 2.7 3.1 ► Act07_Graph…ivs ▼ 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5] ×
For each of the following pages, copy the	
graph and draw the graph that is requested.	

Copy the graphs and draw the derivative or function for problems 3.2 to 3.6. Compare results with your neighbor and discuss any differences in their graphs.

Class Discussion: For each problem, be prepared to discuss how you graphed the derivative or function.