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.
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Functions \& Derivatives

In this lesson you will view several graphs with two functions. You will determine whether each graph represents the function or the 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.

navigate through the lesson.


## 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.


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.

