Graphical Derivatives Lesson Plan for TI-NspireTM

Subject: Calculus Topic: Derivatives Lesson Time: 40 minutes

This lesson has several function and derivative graphs on the same screen. Students will select which graph represents the function or derivative.	1.1 1.2 1.3 1.4 RAD_AUTO_REAL 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. Lesson by: Dan Ilaria
 Problem 1.2 Example 1: Have students work in pairs to discuss their observations about the relationship between the graph labeled derivative and function. Lead a class discussion about student observations. 	1.1 1.2 1.3 1.4 RAD AUTO REAL Example: The graphs are labeled as function and derivative. Discuss with a partner any observations you have. Image: Comparison of the graph of the
Let students work in pairs to determine which graph is the derivative or function for problems 1.3-1.8. Each pair of students should determine if the dotted or solid line graph represents the derivative or the function.	1.1 1.2 1.3 1.4 RAD AUTO REAL 12/95 12/95 -20 2 20
	9.777 2 -1 0.5 10 x



Answer Key:

Problem 1.3 – Derivative is dotted function Problem 1.4 – Derivative is dotted function Problem 1.5 – Derivative is solid function Problem 1.6 – Derivative is solid function Problem 1.7 – Derivative is dotted function Problem 1.8 – Derivative is solid function

Problem 2 – Function students should draw is dotted for each solution.

Problem 2.2

Problem 2.4



Problem 2.3 – one possible solution



Problem 2.5



Problem 2.6 – one possible solution



