## Continuity and Differentiability Lesson Plan for TI-Nspire<sup>TM</sup>

Subject: Calculus Lesson Time: 40 minutes Topic: Continuity, Differentiability File: Calculus\_ContandDiff\_Ilaria 1) Students will move piecewise graphs in order 3.1 RAD AUTO REAL 2.1 1.1 1.2 to make them continuous. Continuity and Differentiability Students will complete a worksheet that discusses continuity and differentiability of each function in Students will move piecewise graphs in order the file. to make them continuous and then determine if the function is differentiable. Lesson by: Daniel R. Ilaria 2) Directions for students to follow. 1.1 1.2 2.1 3.1 ▶RAD AUTO REAL Directions: Each graph is shown below. For each of the following problems, drag point **a** or **b** to make the function continuous. Record your value for **a** or **b** and then differentiate the function (by hand) to determine if the function is differentiable.

