Graphing Linear Equations Using TI-Calculator

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# Iacchetta HW#3 TI Lesson Plan

<table>
<thead>
<tr>
<th>Name: Dave Iacchetta</th>
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<tbody>
<tr>
<td>Grade level(s): Algebra A , 9th Grade</td>
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<td>Objectives:</td>
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<td>My objective is to have students graph linear equations and determine if there is a solution to the system, in a variety of ways, in real time.</td>
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- Modeling / Multiple representations
- Graphing
- Calculations & Computations
Lesson Description:
Students will have basic prior knowledge on the TI 84 calculators; adjusting the window, viewing/inputting data, equations, etc. I will demonstrate/walk students through inputting 2 linear equations and graphing on the TI calculator. Preferably with the Navigator/projector System.

I will guide students through 1-2 examples. Students will predict if the graphs will intersect (solution) or not. If they do intersect I want them to first investigate how to find the solution to the system; (table vs. graph). If someone discovers how to find an answer I will have them share that information with the class. I will then provide several exercises to “find” Solutions to the systems. Students will work on these individually (or in pairs) input their answers on (Navigator or a worksheet).

Upon completion, students will then create a “quiz” consisting of several system problems (equations) both with and without solutions. This will be handed to another student (or team) to solve.

RUBRIC

3- Students successful determine if a solution to a system exists for all classwork problems
   Students create a “quiz” with moderate/appropriate difficulty
   Students successfully answer the student generated “quiz”
   Students can explain and demonstrate how to determine if a solution exists in a variety of ways.

2- Students successful determine if a solution to a system exists for most classwork problems
   Students create a “quiz” with close to appropriate difficulty. Possibly too easy or difficult.
   Students successfully answer the student generated “quiz”
   Students can explain and/or demonstrate how to determine if a solution exists in one way.

1- Students can determine if a solution to a system exists for some classwork problems
   Students create a “quiz” without appropriate difficulty
   Students successfully answer the student generated “quiz”
   Students can’t explain or demonstrate how if a solution exists.

0- Students cannot determine if a solution to a system exists for any classwork problems
   Students cannot create a “quiz”
   Students cannot answer the student generated “quiz”
   Students can’t explain or demonstrate if a solution exists.