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Graphing Linear Equations Using TI-Calculator

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Iacchetta HW#3 TI Lesson Plan

Name: Dave Iacchetta
Grade level(s): Algebra A ,9 th Grade
Objectives: 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.

Modeling / Multiple representations Graphing Calculations & Computations
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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. Preferrably 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. Possibl 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.