

Algebra/Geometry Institute Summer 2004



Lesson Plan 2

Faculty Name: Eddie L. Childs, Sr.

School: John F. Kennedy Memorial High School

City: Mound Bayou, Ms

Grade Level: Grade 10 Algebra II

1. Teacher objective(s)

- ❖ The students will solve systems of equations by using the elimination method with addition, subtraction, and multiplication.

2. Instructional Activities:

- ❖ The teacher will ask the students, “What is meant by the process of elimination?”
- ❖ The students will provide hypothetical situations in which the process of elimination might be used as a problem-solving tool.
- ❖ The students will solve systems of equations by using the elimination method with addition, subtraction and multiplication. The teacher will ask the students, “What is meant by the process of elimination?” The students will provide hypothetical situations in which the process of elimination might be used as a problem-solving tool. When solving a system of equation by elimination, arrange each equation in standard form, $Ax + By = C$, if the coefficient of x (or y) are the same number, use subtraction to eliminate the variable. If the coefficient of x (or y) are different, multiply one or both equations by constants so that the coefficients of x (or y) are the same or opposite numbers. Next, the students will use the preceding statements or steps to eliminate the variable. Furthermore, they will use substitution to solve for the remaining variable.
- ❖ The students will write in outline form the steps to follow when solving a system of equations by the elimination method.
- ❖ The teacher will have the students do the activity in pairs. One partner can do step 1 while the other partner does step 2. The partners can then compare their results.
- ❖ The students will solve a system of two linear equations using multiplication and addition. After they have solve the equations they will check their solutions by substituting the values for x and y .
- ❖ The teacher will hand out worksheet for class work and will do two examples from the work sheet before the class start their work.
- ❖ The teacher will assign homework just before the class session ends on linear equations using multiplication with addition.

- ❖ Students whose class work and/or homework indicate that additional help is required will be assigned a reteaching worksheet during the next lesson period for before or after school remedial help.

3. Materials and Resources

- ❖ Algebra I textbooks.
- ❖ Worksheets on solving equations by elimination.
- ❖ Worksheet on reteaching.
- ❖ White board.
- ❖ Dry erase markers.

4. Assessment

- ❖ Observations of the Activity
- ❖ Classroom work on practice
- ❖ Classroom Discussion (on elimination)
- ❖ Homework page 479 – exercise 15-18
- ❖ Remedial – Worksheet reteaching
- ❖ Biweekly Test

Name: _____ Class: _____ Date: _____

Homework

Use elimination to solve each system of equations.

a. $11x - 4y = 19$
 $3x - 2y = 7$

b. $7y - x = 8$
 $-y + x = 4$

c. $3x + 5y = 4$
 $5x + 7y = 6$

d. $3x - 2y = 31$
 $3x + 2y = -1$

e. $5x + 9y = -7$
 $2x + 3y = -1$

f. $2x - 7y = 3$
 $5x - 4y = -6$

g. $5x + 3y = 2$
 $2x - 4y = -20$

Name: _____ Class: _____ Date: _____

Reteaching

Solve systems of linear equations by elimination.

a. $5x + 4y = 2$

b. $3x + 7y = 10$

c. $7y - x = 8$
 $x - y = 4$

d. $5x + 9y = -7$
 $2x + 3y = -1$

e. $-2x + 9y = -13$
 $6x - 3y = 15$

f. $11x - 4y = 19$
 $3x - 2y = 7$

g. $9x - 5y = -4$
 $3x + 2y = 6$