

## Week 20 Pre-Calc Assignment:

Day 1: Chapter 7 test

Day 2: pp. 554-558 #1-17 odd, 27-49 odd

Day 3: pp. 554-558 #51-75 odd

Day 4: pp. 569-572 #1-33 odd

Day 5: pp. 569-572 #35-41 odd, 47-55 odd

## Notes on Assignment:

### Chapter 7 test

For the test you need to be able to:

- Solve 2-variable systems using substitution
- Solve 2-variable systems using elimination
- Solve 3-variable systems
- Solve 3 word problems using 2 variables
- Find the equation of a parabola given 3 points.
- Graph systems of inequalities
- One extra credit problem that is a system of 4 equations and 4 variable.

### Pages 555-558:

#7-11: You can write the matrix with or without the vertical dividing line after the coefficients.

#33-35: Remember that row-echelon form has the triangle of zeros in the lower left corner. It also has leading 1's.

#37-41: Enter the matrix using [2<sup>nd</sup>] [MATRX] [EDIT] to enter the matrix. Then use [2<sup>nd</sup>] [MATRX] [MATH] [rref()].

#51-69: These are to be done by hand, not with your calculator.

#67: You will notice that you end up with 2 equations with 4 variables. If this is the case, then you need 2 arbitrary numbers. Let  $w=a$  and  $z=b$ . Put those in the bottom equation and solve for  $y$ . Then take the top equation and solve for  $x$ .

#71-75: Solve these using your calculator. For a couple of these you will manually have to let  $z=a$  and do the back substituting. The calculator won't do that for you.

Pages 569-572:

#1-3: The corresponding elements of each matrix must be equal.

#5-17: Do not use calculators on these problems.

#19-21: Use your calculator for these. Enter each matrix separately into a different slot (capital letter) on your calculator first.

#27-33: Do not use calculators on these problems.

#35-39: Use your calculator for these. Enter the matrix A and B and then multiply AB.

#41-55: Do these by hand. Only use your calculator to check your answers if you want to.