## Unit 7 - Systems of Equations

## - General Reminders

- Read and annotate the whole question. You might want to highlight the question.
- Always put your answer in an ordered pair unless you need to put it in the context of the problem.
- For word problems, lable what your variables mean.
- You can CHECK your answers! Plug them back in and make sure that they work.
- It might help to write the method you are using on your paper.
- USE PENCIL - mistakes are okay as long as you can fix them
- Make sure your work is neat so Ms. Barger can give you credit for using the correct method
- Elimination
- Make sure the variables line up
- Make sure that two of the same variables have the same, but opposite coefficient (like $3 x$ and $-3 x$ )
- Add the two equations together and find the first variable
- Substitute your found variable into the equation to find the other variable
- Make sure you have answered the question that the problem asked
- Substitution
- Solve one equation for a variable
- Substitute the value of that variable into the second equation
- Solve for that variable
- Plug in your solution to either of the original equations and solve for the second variable
- Make sure you have answered the question that the problem asked
- Graphing
- Put your equations both into slope intercept form
- Graph both equations
- Find the intersection of the lines
- Make sure you have answered the question that the problem asked
- Word problems
- Read the problem
- Underline the question
- Define your variables
- Write your equations
- Solve using the method that makes the most sense to you in the situation
- "How Many Solutions?" problems
- Solve using the method that they asked you to use. If no method is specified, use the method that makes the most sense
- If you get a point as your answer, you have ONE SOLUTION
- If you get a true statement for your answer (such as $3=3$ or $0=0$ ), you have INFINITELY MANY SOLUTIONS
- If you get a false statement for your answer (such as 4=0), you have NO SOLUTION


## - ANSWERS

