CCSS Algebra 1 AA3 Systems Notes Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **I can determine whether or not a coordinate point is a SOLUTION to a SYSTEM.** | **I can GRAPH a SYSTEM to determine the SOLUTION.** |
| (0, 5) is a SOLUTION to$-3x+2y=10$$y=\frac{1}{4}(x+8)+3$ because$-3( ) + 2( ) = 10$  AND$ = \frac{1}{4}( + 8) + 3$ | Solve the system by GRAPHING:$y=x-2$$y= -\frac{1}{2}x+4$ |
| Solution (\_\_, \_\_\_) |
| **I can use the EQUAL VALUES METHOD to find the SOLUTION to a SYSTEM.** | **I can use SUBSTITUTION to find the SOLUTION to a SYSTEM.** |
| For the SYSTEM shown,$x= -3y-8$$x=2y + 27$1. The 1st Step to solving is to make  \_\_\_\_\_\_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_\_\_\_\_\_\_2. The SOLUTION to the SYSTEM is  x = \_\_\_\_\_ and y = \_\_\_\_\_ or ( \_\_\_\_, \_\_\_\_\_ ) | For the SYSTEM shown, $5x-3y=29$$y= -2x+5$1. The 1st Step to solving is by replacing the \_\_\_\_ in \_\_\_\_\_\_\_ with \_\_\_\_\_\_\_\_2. The SOLUTION to the SYSTEM is  x = \_\_\_\_\_\_ and y = \_\_\_\_\_ or ( \_\_\_\_\_, \_\_\_\_\_\_) |
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| **I can use ELIMINATION to find the SOLUTION to a SYSTEM.** | **I can use ELIMINATION with MULTIPLICATION to find the SOLUTION to a SYSTEM.** |
| For the SYSTEM shown,$2x-3y= -10$$4x+3y= -20$1. If I ADD the two equations together, the \_\_\_\_ willbe eliminated and the equation will become  \_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_2. Once I find the value of x, I can find y by solving the equation \_\_\_\_\_\_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_ 3. The SOLUTION to the SYSTEM is  x = \_\_\_\_\_ and y = \_\_\_\_\_ or ( \_\_\_\_, \_\_\_\_\_ ) | For the SYSTEM shown,$2x-3y= -10$$4x+5y= -20$1. The 1st Step to solving is to MULTIPLY  \_\_\_\_\_\_\_\_\_\_\_ by \_\_\_\_.2. The 2nd Step to solving is: 3. The SOLUTION to the SYSTEM is  x = \_\_\_\_\_ and y = \_\_\_\_\_ or ( \_\_\_\_, \_\_\_\_\_ ) |
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| **I can determine is a SYSTEM has NO SOLUTION or an INFINITE NUMBER OF SOLUTIONS.** | **Extra Practice:**1. $y=-5x+2$ **and** $y=2x+16$
2. $4x+6y=62$**and** $y=x+2$

1. $3x-5y=-19$**and** $5x-y=5$
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| 1. If a SYSTEM has NO SOLUTION, the graphs of the two lines in the SYSTEM are \_\_\_\_\_\_\_\_\_\_\_\_.2. If a SYSTEM has an INFINITE NUMBER OF  SOLUTIONS, the graphs of the two lines in the  SYSTEM are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.3. If a SYSTEM has NO SOLUTION, using EQUAL  VALUES, SUBSTITUTION or ELIMINATION will   result in an equation like \_\_\_\_\_\_= \_\_\_\_\_\_\_.4. If a SYSTEM has an INFINITE NUMBER OF  SOLUTIONS, using EQUAL VALUES,  SUBSTITUTION or ELIMINATION will result in an  equation like \_\_\_\_\_\_= \_\_\_\_\_\_\_. |
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