Date: _____

Use the following to review for you test. Work the Practice Problems on a separate sheet of paper if needed.

What you need to know & be able to do	Things to remember	Problem	Problem
Identify and apply the properties of equality.	Study your property sheet! Papers: 2.1 & 2.2	1. Which property is illustrated by the following: \[\frac{6}{5} \cdot \frac{5}{6} = 1 \] \[\text{Multiplicative} \] \[\text{Inverse} \]	2. What is an example of the transitive property? If a = b + b = c, then a = c
Find the solution of a system of linear equations by graphing.	 Get "y" by itself. Identify the slope (m) and the y-int (b) y = mx + b Check your answer! 	3. $y = -x - 2$ $x + y = 3$ $y = -x - 2$ y	$y = x + 2$ 4. $y = \frac{1}{4}x - 1$
Find the solution of a system of linear equations by substitution.	 Solve one of the equations for a variable (either x or y). Substitute into the other equation. Plug back into the ORIGINAL! Check your answer! 	$ \begin{array}{r} -7x + 8y = 6 \\ x = -4y - 6 \\ -7(-4y - 6) + 8y = 6 \\ 28y + 42 + 8y = 6 \\ 3(y - 36) \\ y = -36 \\ y = -1 \end{array} $	6. 8x+2y=16 x-X=7 x=7+y 8(7+y)+7y=16 56+8y+2y=16 10y=-40 y=-4 (3,-4)
Find the solution of a system of linear equations by elimination.	 Decide which variable you want to get rid of. Make sure the coefficients are opposite Add the two equations. Solve for the variable. Substitute back into the original. Check your answer! 	7. $-2x-8y=6$ 7. $-2y=0$ $-2y=0$ $-2y=0$ $-2x+0=6$ $-2x=6$ $-3=0$ $-3=0$ $-3=0$	$ \begin{array}{r} $

Coord. Algebra Support 2.21 – Algebra Test Review -3x+y=17 y=3x+173(3x-3y=-3)· Check if a pair is 9. already opposite 8x + 7y = 3for elimination. · Check to see if 8x +7(3x+17)=3 either equation is Find the solution of 8x+21x+119=3 4x=20 already solved a system of linear for a variable for 29x +119=3 equations by the substitution. best method. Check to see if (5,6) 7.9x ==116 the equations are already in X=-4 15-3y=3 slope-intercept (-4,5) form. 11. Amy's school is selling 12. The band is selling wrapping tickets to a choral paper for a fundraiser. Customers can buy rolls of performance. A senior citizen's ticket is \$6 and a plain wrapping paper and child's ticket is \$15. If they rolls of shiny wrapping made \$810 dollars and paper. The band sold a total sold a total of 72 child of 55 rolls and made \$950. If a roll of plain costs \$14 and and senior citizen tickets, how many of each ticket a roll of shiny costs \$20, how did they sell? many rolls of each did they • Define x and y. 6/s+15==810 sell? zost14p= 950 • Set up two -6(S+C=72) Solving a System of equations. -20(5+p=55) **Linear Equations** Decide the best - 65-6c=-432 -205-20p=-1100 Word Problem method. Solve. • End with words! y > -2x - 3 $y \le x+1$ 14. $y \le \frac{1}{2}x + 2$ 13. y < -x - 3 Make sure both equations are in slope-intercept form. · Decide if the Graphing a system lines will be solid of linear or dashed. inequalities. • Graph the lines. • Test a pointtypically (0,0). • Shade appropriately.